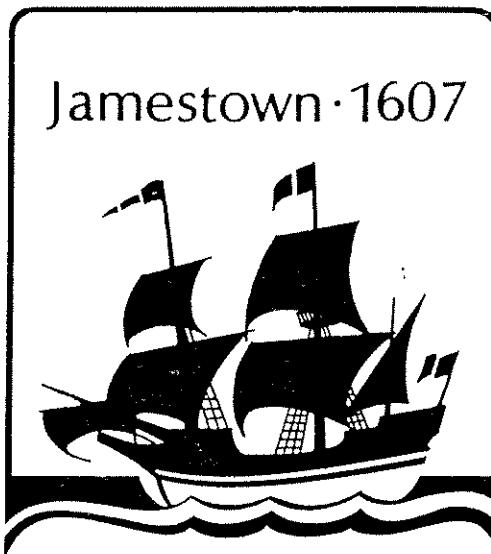


JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA



AUGUST 1990

PREPARED BY:

ROUSE-SIRINE ASSOCIATES, LTD.
SURVEYORS • ENGINEERS • PLANNERS
333 OFFICE SQUARE LANE
VIRGINIA BEACH, VIRGINIA 23462

NOTICE TO USERS

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

Physical Description of Station Marks:

The stations consist of 3 $\frac{1}{4}$ " diameter domed alloy disks (with magnets) set in 6" diameter concrete posts. The disks are stamped with a "STATION" number and a point in the center of a triangle in the center of the disk. The posts are cast in place, 36" in depth, and contain a 3/4" diameter reinforcing bar 36" in length for stability. Each station is accompanied by two (2) nearby reference marks and one (1) distant reference/azimuth mark.

The reference monuments (including azimuths) are of same type of construction (with magnets) as the station monument, but are easily distinguished from the main stations by the size and markings of the disks. The reference mark disks are only 2" in diameter and are stamped REFERENCE MARK with a crossed arrow in the center pointing in the general direction to the main station monument.

The reference and recovery data sheets provide a complete and detailed description of the location of each individual main station and their respective reference marks and witness posts. To avoid unnecessary excavation, please note the location of the monument with respect to the witness post and pinpoint the location with the ties given on the reverse side of the reference and recovery data sheet before digging.

Units:

The coordinates of each main station refer to the Virginia Coordinate System of 1983-South Zone (1986 adjustment) and are provided in meters, U.S. survey feet and international feet; additionally, all bearings are state plane grid bearings. The conversions from meters to the respective feet values are as follows:

1. To convert from meters to international feet multiply meters by (100/2.54 x 12) exact, or 3.280839895 approximate.
2. To convert from meters to US survey feet multiply meters by (39.37/12) exact, or 3.280833333 approximate.

As you will note, the difference between the two conversions is very small, less than 1 part in 150,000, and can be ignored for conversions of most field measurements. The difference does become significant when converting numbers larger than 1,500 feet, i.e., meter coordinates.

Scale Factor:

The scale factor is used to convert field measurements to plane distances. Throughout the James City County project area the scale factor is slightly less than one and is a function of latitude (northing). For most small survey projects an average scale factor will produce adequate results. The scale factor at each control station is printed on the reverse side of the reference and recovery data sheet. All published distances are plane distances incorporating the scale factor.

Example:

A survey project is located approximately midway between Stations 305 and 306.

To determine an average scale factor for the survey project simply average the scale factors of Stations 305 and 306.

Scale factor of Sta. 305 = 0.999945413

Scale factor of Sta. 306 = 0.999945402

Project scale factor = 0.9999454075

To determine a reduced horizontal field measurement of 4863.20 feet to a plane distance, multiply the field measurement by the scale factor.

4863.20 field distance \times 0.9999454075 = 4862.934 plane distance. The scale factor must be applied to all measured distances to compute plane coordinates.

Convergence:

The convergency angle is used to convert geodetic or astronomic¹ azimuth to state plane azimuth. The convergence angle at each control station is printed on the reverse side of the reference-recovery sheet and is subtracted from an astronomic azimuth to determine the state plane azimuth of a line.

Example: An astronomic azimuth of a line from Station 305 to a monument is determined to be $176^{\circ}16'45''$. The state plane azimuth equals the astronomic azimuth minus the convergence angle.

State Plane Azimuth = $176^{\circ}16'45'' - 01^{\circ}02'51'' = 175^{\circ}13'54''$

State Plane Grid Bearing = S $04^{\circ}46'06''$ E

¹While the geodetic azimuth and the astronomic azimuth are not exactly equal, the difference is negligible for most survey projects.

Vertical Datum:

The station elevations are based on the current published values for the following Federal Government and County of York vertical monuments which have been incorporated into the vertical network:

<u>Monument Name</u>	<u>Current Published Vertical Value (in Feet)</u>	<u>Date of Last Vertical Adjustment</u>
W264	128.08	1972
Y455	119.55	1972
York County 015	124.74	1989
York County 017	104.50	1989
BARRETTS 1934	11.79	1972
K277	24.01	1972
R261	45.14	1972

These existing vertical monuments are well distributed throughout and adjacent to the County. The published values for these monuments were confirmed by conventional, accurate differential leveling methods. Additionally, all new stations were heighted by the same differential leveling methods and tied to these vertical monuments.

It appears that the adjustments to the datum by NGS have lowered the vertical plane by approximately 0.38' from the previous values published by Abrams Aerial Survey Corp in 1973 and 1974. Extreme caution should be exercised in attempting to integrate any previously published data with data contained herein.

Notification of disturbed or destroyed monuments:

Your assistance is requested in reporting any monument found to have been or subject to being moved, disturbed or destroyed. Please contact The Office of Real Estate Assessment, James City County, Virginia, at (804) 253-6650.

Use of Previously Published Data:

Again, extreme caution should be exercised in attempting to integrate previously published horizontal and vertical data with the data contained herein.

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

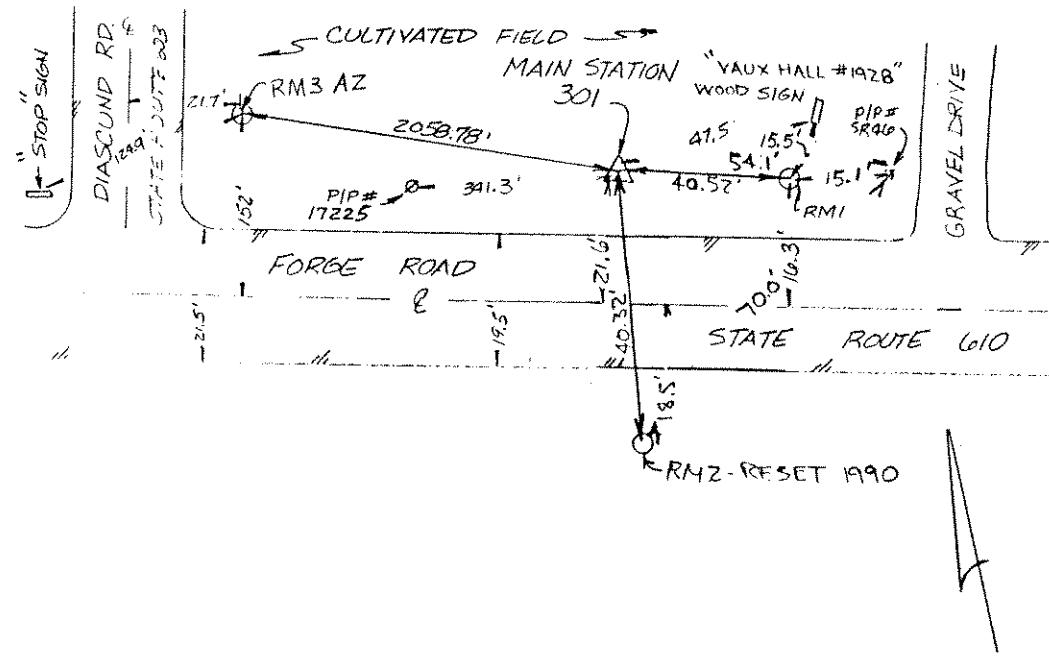
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
301	Meters	3646184.089	1116782.629
	U.S. Survey Ft.	11962522.297	3663977.676
	Int'l Ft.	11962546.222	3663985.004
STA. AZIMUTH MARK 301 RM3 AZ.	UNITS	EASTING (X)	NORTHING (Y)
	Meters	3645578.988	1116948.857
	U.S. Survey Ft.	11960537.062	3664523.043
	Int'l Ft.	11960560.983	3664530.372

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S64°20'08"E	40.52
RM2 RESET 1990	S22°29'21"W	40.32
RM3 AZ.	N74°38'21"W	2058.78

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 99.58

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 98.47

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

STONEHOUSE

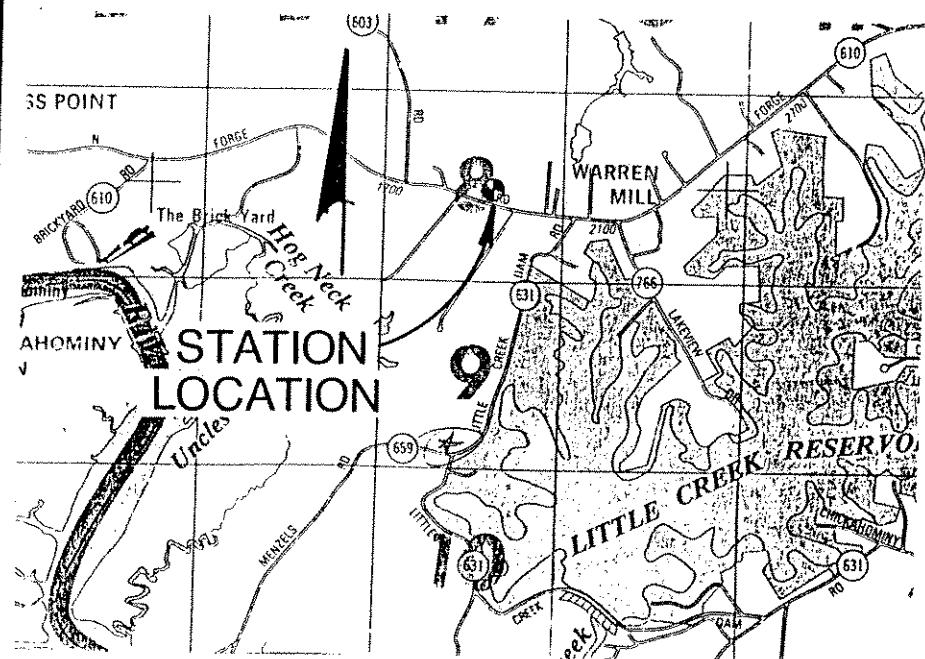
STATION NUMBER

301

FIELD BOOKS

P.S. 365, P. 11-13, 32

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 301:

A 3½" disk in concrete, set approximately 8" below the ground surface, stamped "STATION NO. 301." The disk is located 21.6' north of the center line of the pavement of State Route 610 (Forge Road), 341.3' east of utility pole #17225, 54.1' west of utility pole #SR46, and 47.5' southwest of a wood sign (Vaux Hall #1928).

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 301 – REFERENCE MARK NO. 1." The disk is located 16.3' north of the center line of the pavement of State Route 610 (Forge Road), 15.1' west of utility pole #SR46, and 15.5' southwest of a wood sign (Vaux Hall #1928).

REFERENCE MARK NO. 2
RESET 1990:

A 2" disk in concrete, set approximately 18" below the ground surface, stamped "STATION NO. 301 – REFERENCE MARK NO. 2 RESET 1990." The disk is located 18.5' south of the center line of the pavement of State Route 610 (Forge Road), and 70.0' southwest of utility pole #SR46.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 301 – REFERENCE MARK NO. 3 AZ." The disk is located approximately 152' north of the center line of the pavement of State Route 610 (Forge Road) and 21.7' east of the center line of the pavement of State Route 603 (Diascund Road), 124.9' northeast of a "stop" sign.

STATION NAME:	301
Latitude (dms)	37 22 26.94657
Longitude (dms)	76 50 57.84491
State Plane Zone (4502)	Virginia South
Scale	0.999945408
Convergence (dms)	1 00 06.441

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

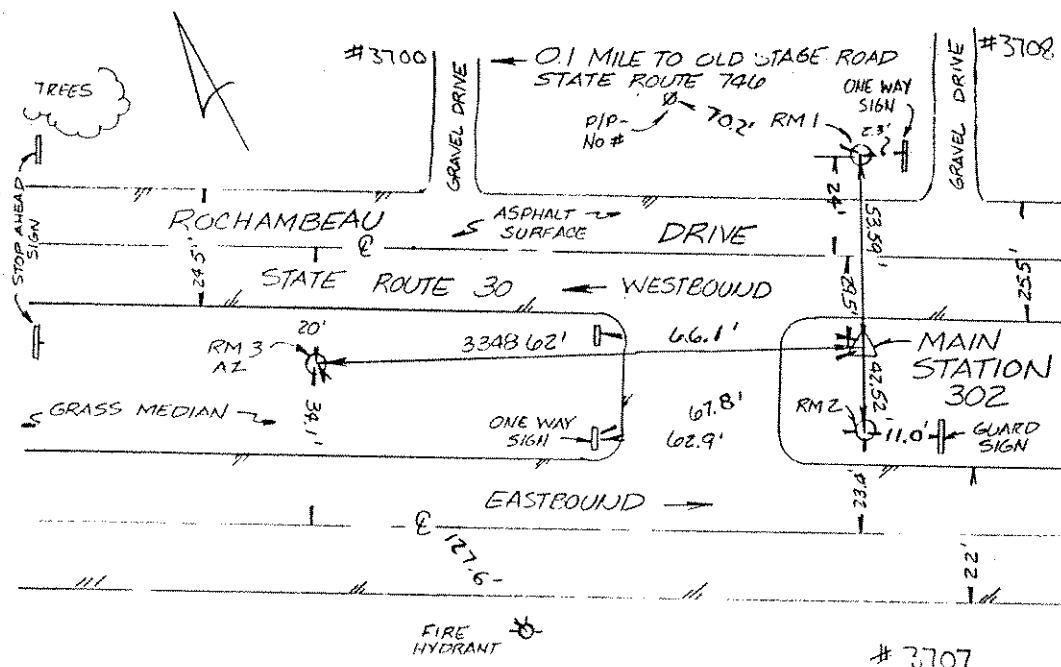
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
302	Meters	3651554.555	1119456.676
	U.S. Survey Ft.	11980141.903	3672750.778
	Int'l Ft.	11980165.864	3672758.123
STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
302 RM3 AZ.	Meters	3650562.740	1119697.623
	U.S. Survey Ft.	11976887.923	3673541.286
	Int'l Ft.	11976911.877	3673548.633

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N27°17'10"E	53.59
RM2	S22°04'15"W	42.52
RM3 AZ.	N76°20'43"W	3348.62

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 80.80

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 95.19

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

STONEHOUSE

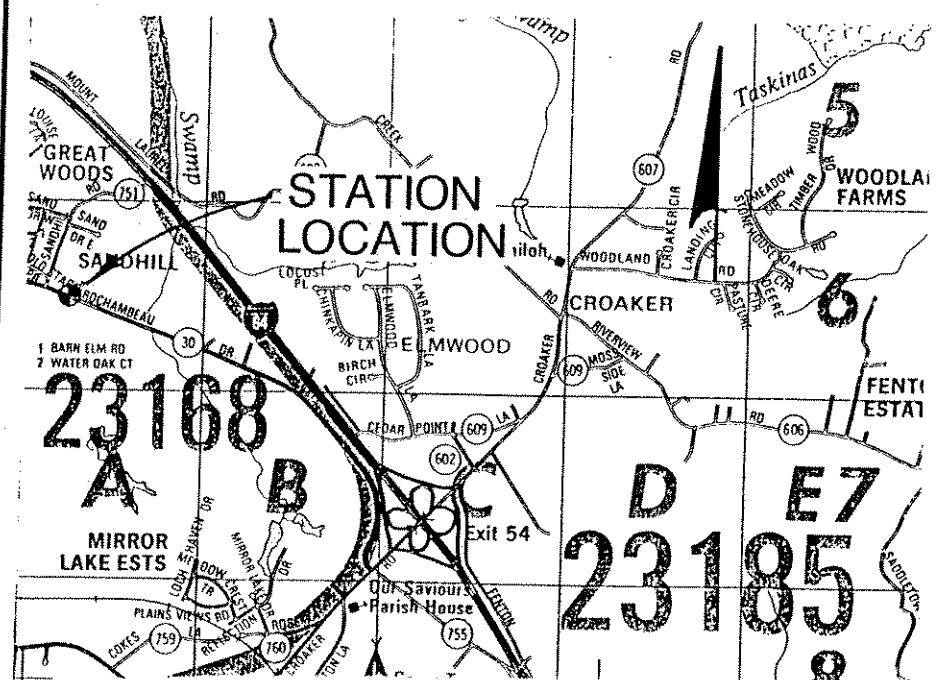
FIELD BOOKS

P.S. 365, P. 13-15

STATION NUMBER

302

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 302:

A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 302." The disk is located 0.1 mile east of State Route 746 (Old Stage Road), 29.5' south of the center line of the pavement of the westbound lanes of State Route 30 (Rochambeau Drive), 66.1' southeast of a reflector sign, and 67.8' east of a "One Way" sign.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 302 – REFERENCE MARK NO. 1." The disk is located 24' north of the center line of the pavement of the westbound lanes of State Route 30 (Rochambeau Drive), 2.3' west of a "One Way" sign, and 70.2' southeast of a utility pole.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 302 – REFERENCE MARK NO. 2." The disk is located 23.4' north of the center line of the pavement of the eastbound lanes of State Route 30 (Rochambeau Drive), 11.0' northwest of a reflector sign, and 62.9' southeast of a "One Way" sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 302 – REFERENCE MARK NO. 3 AZ." The disk is located 20' south of the center line of the pavement of the westbound lanes of State Route 30 (Rochambeau Drive), and 127.6' north of a fire hydrant on the south side of State Route 30 (Rochambeau Drive).

STATION NAME:	302
Latitude (dms)	37 23 50.57293
Longitude (dms)	76 47 17.62009
State Plane Zone (4502)	Virginia South
Scale	0.999945537
Convergence (dms)	1 02 20.101

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

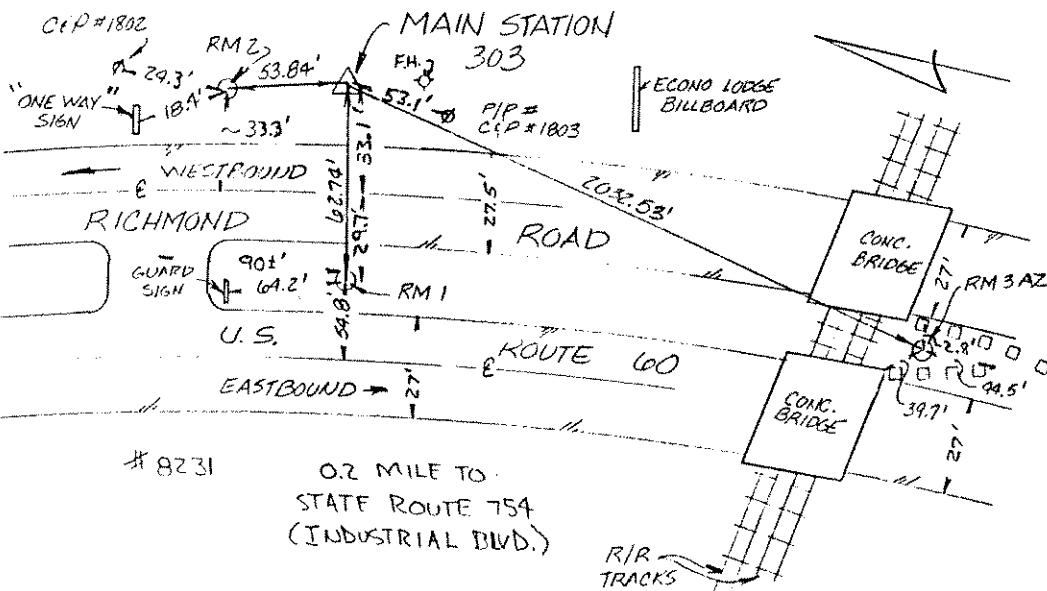
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
303	Meters	3650184.031	1118630.804
	U.S. Survey Ft.	11975645.441	3670041.228
	Int'l Ft.	11975669.392	3670048.568

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
303 RM3 AZ.	Meters	3650040.401	1118028.168
	U.S. Survey Ft.	11975174.214	3668064.082
	Int'l Ft.	11975198.164	3668071.418

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S84°34'05"W	62.74
RM2	N05°00'48"W	53.84
RM3 AZ.	S13°24'20"W	2032.53

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 113.13

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 112.57

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

STONEHOUSE

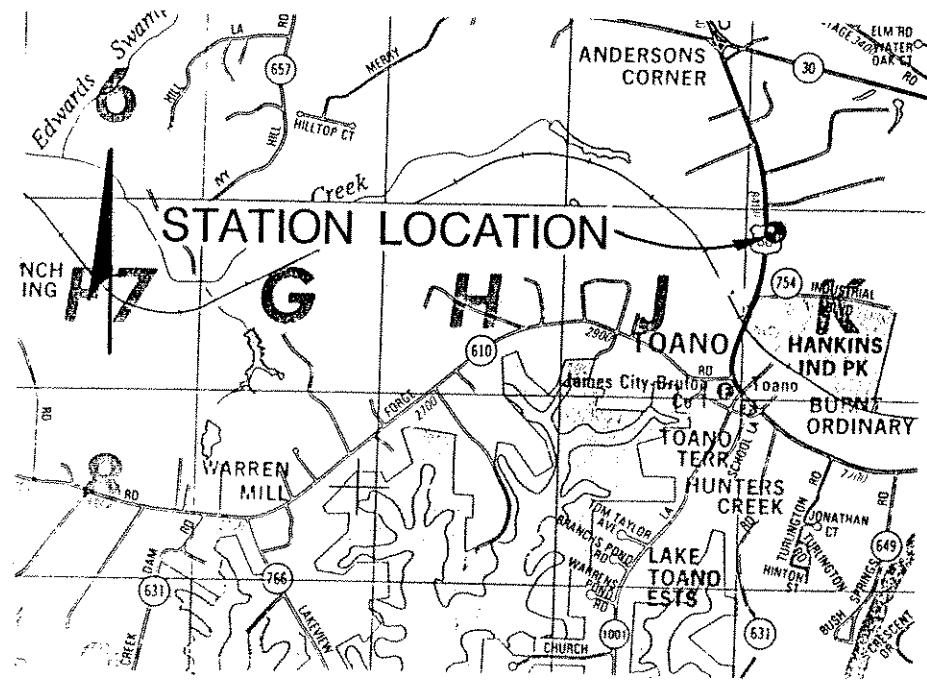
STATION NUMBER

303

FIELD BOOKS

P.S. 365, P. 17-19

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 303:

A 3¼" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 303." The disk is located 0.2 mile north of the intersection of U.S. Route 60 (Richmond Road) and State Route 754 (Industrial Boulevard), 33.1' east of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 53.1' north of Chesapeake & Potomac Telephone Company utility pole #1803.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 303 - REFERENCE MARK NO. 1." The disk is located 29.7' west of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 64.2' south of a reflector sign, and 90±' from the center line of a median crossover.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 8" below the ground surface, stamped "STATION NO. 303 - REFERENCE MARK NO. 2." The disk is located 33.3' east of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 24.4' south of Chesapeake & Potomac Telephone Company utility pole #1802, and 18.4' southeast of a "One Way" sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 303 - REFERENCE MARK NO. 3 AZ." The disk is located 2.8' west of the guard rail on the west side of the westbound lanes of U.S. Route 60 (Richmond Road), 39.7' southeast of the corner of the eastbound bridge on U.S. Route 60 (Richmond Road), 44.5' north of the south end of the guardrail on the east side of the eastbound lanes of U.S. Route 60 (Richmond Road).

STATION NAME:	303
Latitude (dms)	37 23 24.58958
Longitude (dms)	76 48 13.93840
State Plane Zone (4502)	Virginia South
Scale	0.999945479
Convergence (dms)	1 01 45.920

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

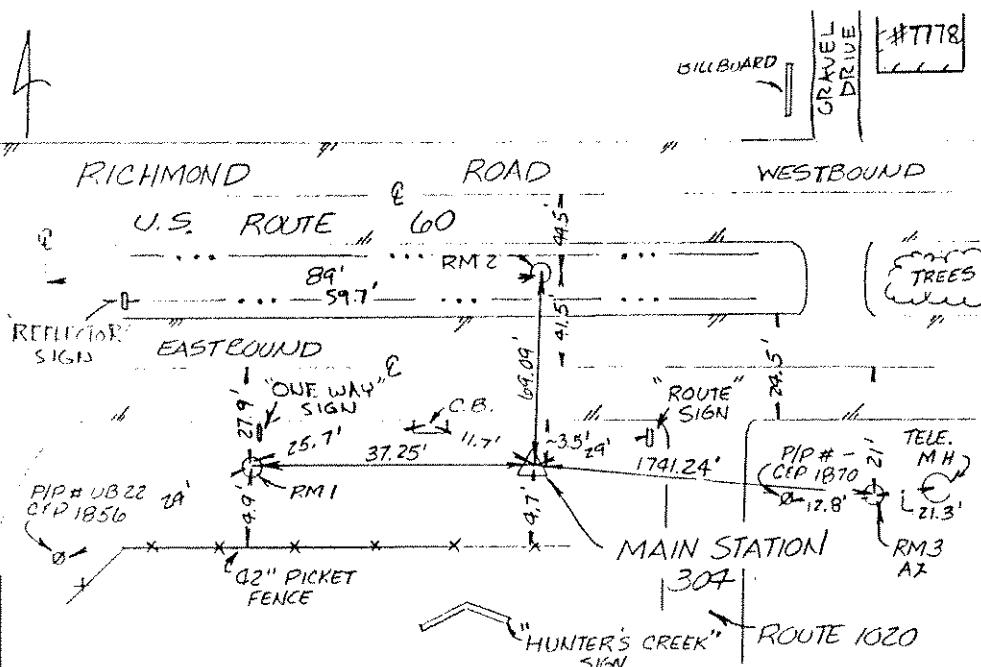
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
304	Meters	3650760.578	1117168.693
	U.S. Survey Ft.	11977536.998	3665244.285
	Int'l Ft.	11977560.953	3665251.616

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
304 RM3 AZ.	Meters	3651291.307	1117167.834
	U.S. Survey Ft.	11979278.231	3665241.467
	Int'l Ft.	11979302.190	3665248.798

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N70°12'00"W	37.25
RM2	N20°38'37"E	69.09
RM3 AZ.	S89°54'26"E	1741.24

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 106.86

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 102.95

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

STONEHOUSE

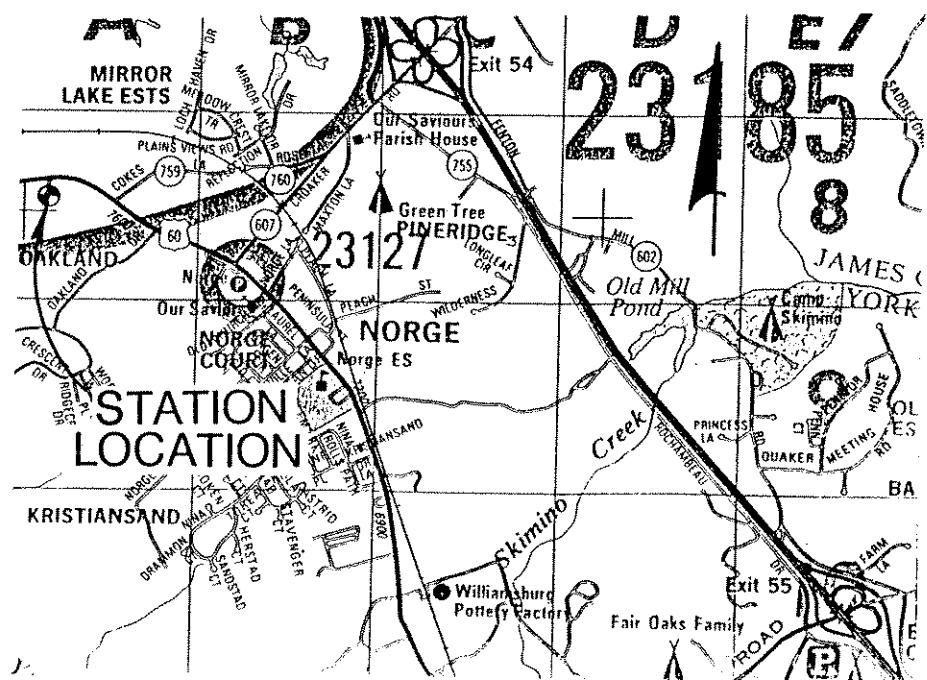
STATION NUMBER

304

FIELD BOOKS

P.S. 365, P. 9-11

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 304:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 304." The disk is located near the intersection of U.S. Route 60 (Richmond Road) and State Route 1020, 3.5' from the back of the curb of the eastbound lanes of U.S. Route 60 (Richmond Road), 4.7' north of a 42" picket fence, 29' southwest of a "route" sign, and 11.7' southeast of the center of the catch basin.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 304 - REFERENCE MARK NO. 1." The disk is located 27.9' south of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 4.9' north of a 42" picket fence, and 24' northeast of utility pole #UB22 (Chesapeake & Potomac Telephone Company #1856).

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 304 - REFERENCE MARK NO. 2." The disk is located 44.5' south of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 41.5' north of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 89' east of the center line of the pavement of a median crossing, and 59.7' northeast of a reflector sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 304 - REFERENCE MARK NO. 3 AZ." The disk is located 21' south of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 12.8' east of Chesapeake & Potomac Telephone Company utility pole #1870, and 21.3' west of a telephone manhole.

STATION NAME:	304
Latitude (dms)	37 22 36.83176
Longitude (dms)	76 47 51.57450
State Plane Zone (4502)	Virginia South
Scale	0.999945415
Convergence (dms)	1 01 59.493

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

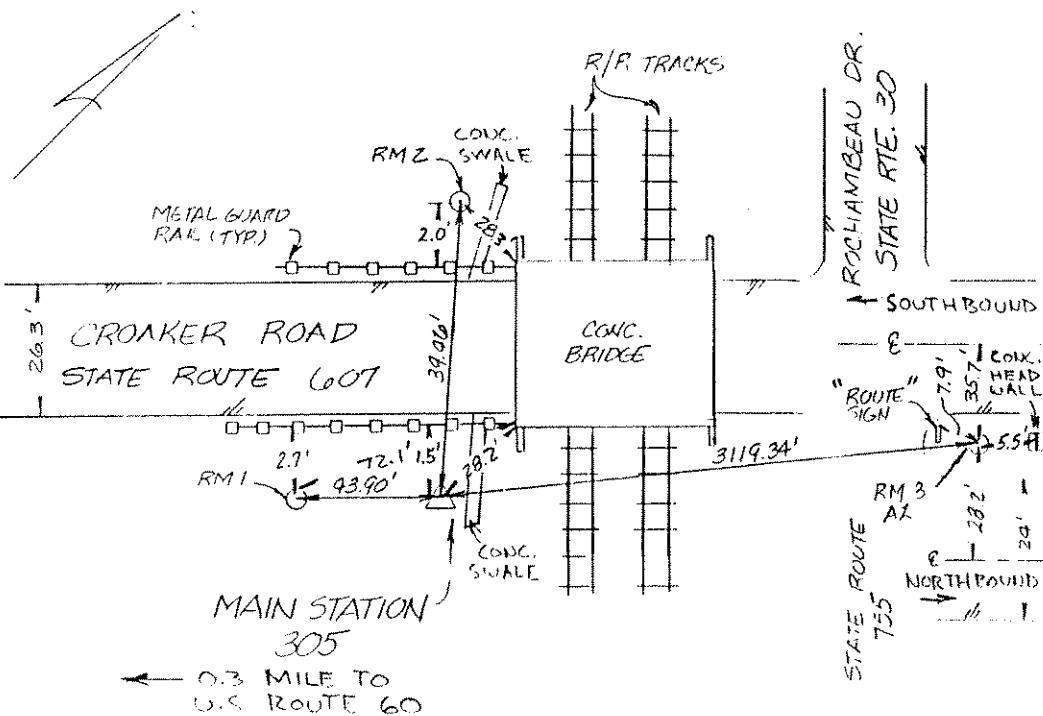
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
305	Meters	3652855.863	1117124.228
	U.S. Survey Ft.	11984411.276	3665098.405
	Int'l Ft.	11984435.245	3665105.735

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
305 RM3 AZ.	Meters	3653538.146	1117786.394
	U.S. Survey Ft.	11986649.734	3667270.861
	Int'l Ft.	11986673.708	3667278.195

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S46°39'59"W	43.90
RM2	N45°56'52"W	39.46
RM3 AZ.	N45°51'26"E	3119.34

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 132.12

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 113.53

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

STONEHOUSE

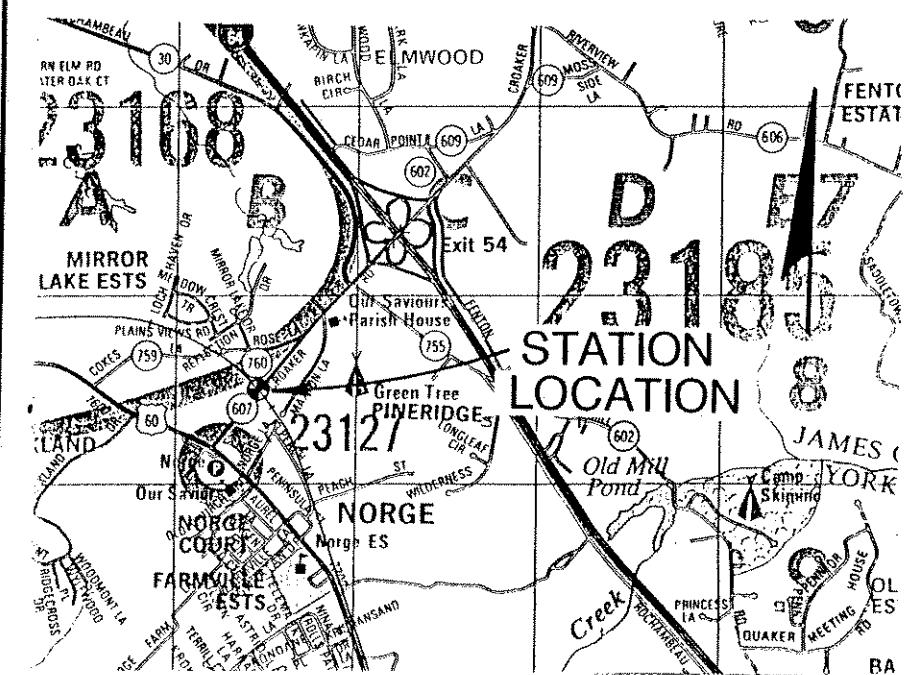
STATION NUMBER

305

FIELD BOOKS

P.S. 365, P. 7-9

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 305:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 305." The disk is located approximately 0.3 mile northeast of U.S. Route 60 (Richmond Road), 1.5' southeast of a metal guardrail southeast of the pavement of State Route 607 (Croaker Road), 28.2' south of the southeast corner of the bridge on State Route 607 (Croaker Road).

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 305 – REFERENCE MARK NO. 1." The disk is located 2.7' southeast of a metal guardrail southeast of the pavement of State Route 607 (Croaker Road), and 72.1' south of the southeast corner of the bridge on State Route 607 (Croaker Road).

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 305 – REFERENCE MARK NO. 2." The disk is located 2' northwest of a metal guardrail northwest of the pavement of State Route 607 (Croaker Road), 28.3' west of the southwest corner of the bridge on State Route 607 (Croaker Road).

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 305 – REFERENCE MARK NO. 3 AZ." The disk is located at the intersection of State Route 607 (Croaker Road) and State Route 30 (Rochambeau Drive), 35.7' southeast of the center line of the pavement of the southbound lanes of State Route 607 (Croaker Road), 28.2' northwest of the center line of the pavement of the northbound lanes of State Route 607 (Croaker Road), 5.5' southwest of the center of a concrete headwall, and 7.9' east of a "route" sign.

STATION NAME: 305

Latitude (dms) 37 22 34.15554

Longitude (dms) 76 46 26.45298

State Plane Zone (4502) Virginia South

Scale 0.999945413

Convergence (dms) 1 02 51.156

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

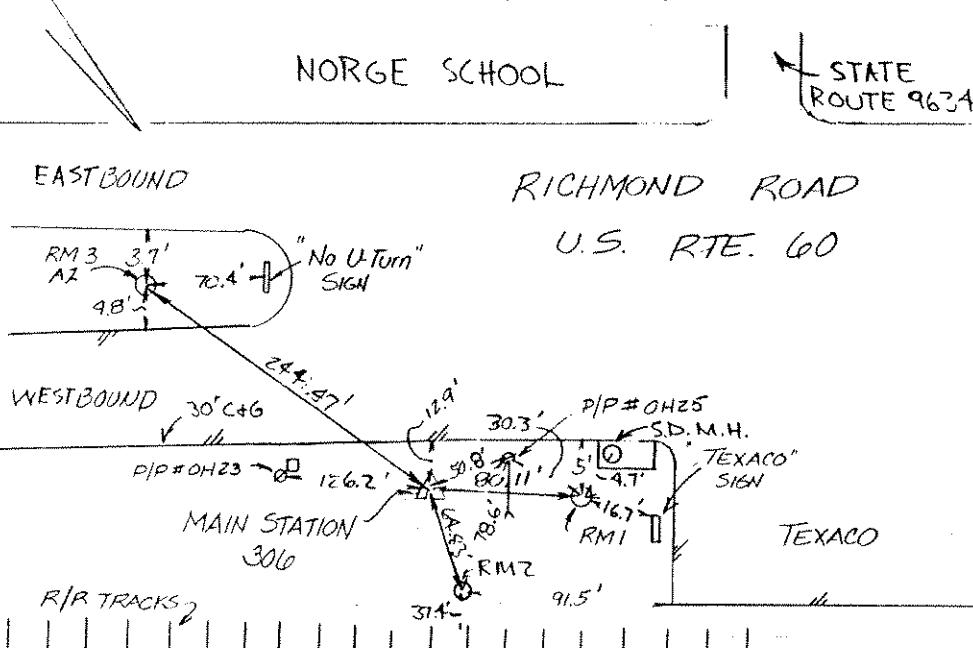
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
306	Meters	3653463.355	1115917.870
	U.S. Survey Ft.	11986404.356	3661140.546
	Int'l Ft.	11986428.328	3661147.868

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
306 RM3 AZ.	Meters	3653720.257	1115219.459
	U.S. Survey Ft.	11987247.211	3658849.176
	Int'l Ft.	11987271.186	3658856.493

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N41°52'08"W	80.11
RM2	N36°05'31"E	64.83
RM3 AZ.	S20°11'44"E	2441.47

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 100.40

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 93.46

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

STONEHOUSE

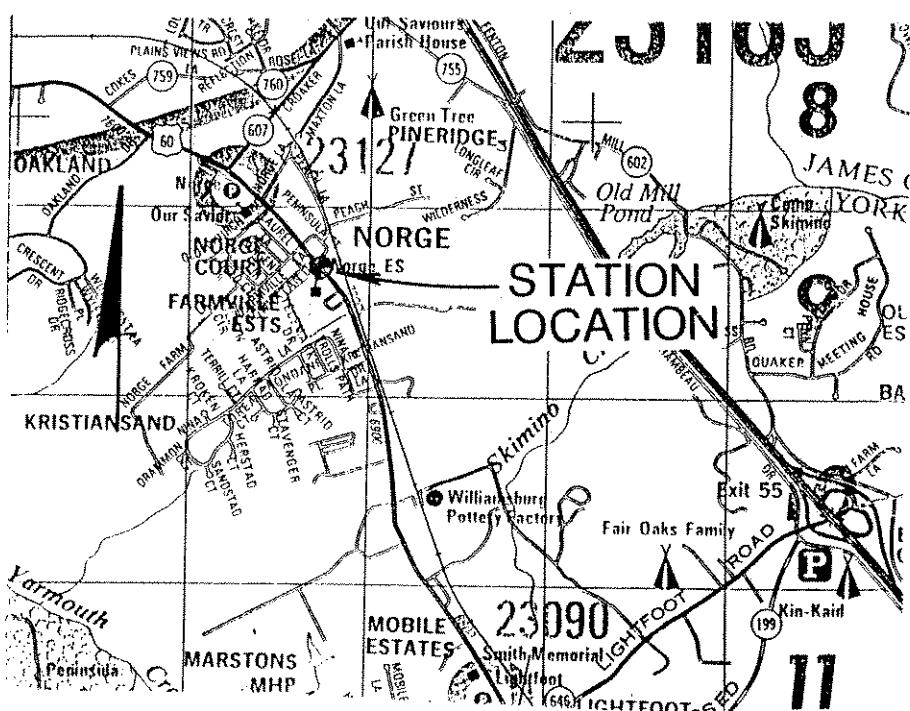
STATION NUMBER

306

FIELD BOOKS

P.S. 365, P. 2-4

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 306:

A 3½" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 306." The disk is located near the intersection of U.S. Route 60 (Richmond Road) and State Route 9634 (entrance to Norge School), 12.9' northeast of the back of the curb of U.S. Route 60 (Richmond Road), 50.8' southeast of utility pole #OH25, and 126.2' northwest of utility pole #OH23.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 306 – REFERENCE MARK NO. 1." The disk is located 5' northeast of the back of the curb of U.S. Route 60 (Richmond Road), 16.7' southeast of the "Texaco" sign, and 4.7' east of the center of a storm drain manhole.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 306 – REFERENCE MARK NO. 2." The disk is located 37.1' southwest of the railroad tracks, 91.5' southeast of the southeast corner of the Texaco parking lot, and 78.6' southeast of utility pole #OH25.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 306 – REFERENCE MARK NO. 3 AZ." The disk is located 70.4' south of a "No U-Turn" sign, 3.7' northeast of the back of the curb of the eastbound lanes of U.S. Route 60 (Richmond Road), and 4.8' southwest of the back of the curb of the westbound lanes of U.S. Route 60 (Richmond Road).

STATION NAME:	306
Latitude (dms)	37 21 54.66846
Longitude (dms)	76 46 02.66404
State Plane Zone (4502)	Virginia South
Scale	0.999945402
Convergence (dms)	1 03 05.594

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

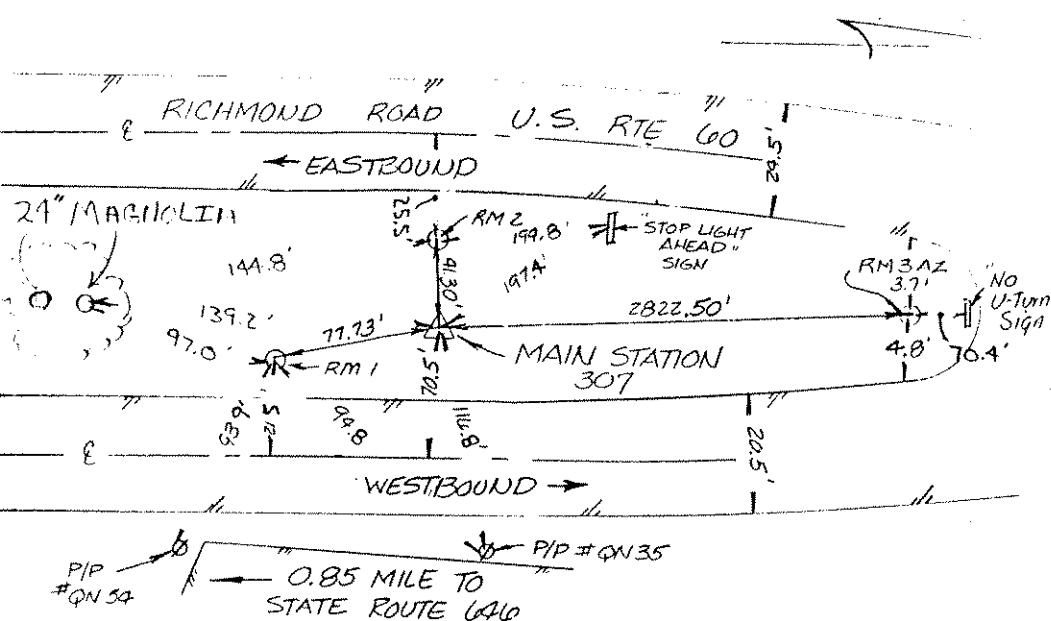
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
307	Meters	3653864.189	1114371.285
	U.S. Survey Ft.	11987719.426	3656066.458
	Int'l Ft.	11987743.401	3656073.770

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
306 RM3 AZ.	Meters	3653720.257	1115219.459
	U.S. Survey Ft.	11987247.211	3658849.176
	Int'l Ft.	11987271.186	3658856.493

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S64°05'24"E	77.73
RM2	S67°39'01"W	41.30
RM3 AZ.	N09°37'52"W	2822.50

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 118.35

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 93.46

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

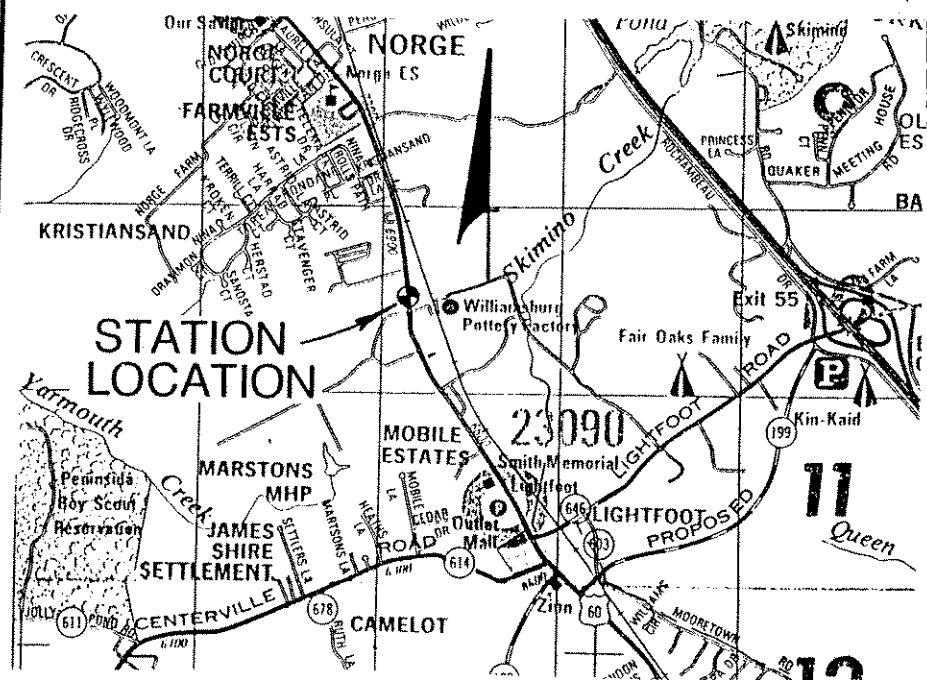
STATION NUMBER

307

FIELD BOOKS

P.S. 365, P. 1, 2 & 4

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 307:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 307." The disk is located approximately 0.85 mile north of State Route 646 (Lightfoot Road) in the median of U.S. Route 60 (Richmond Road), 70.5' west of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 197.4' southeast of a "Stoplight Ahead" sign, 116.8' southwest of utility pole #QN35, and 139.2' north of a 24" magnolia.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 307 - REFERENCE MARK NO. 1." The disk is located 21.5' west of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 93.9' northwest of utility pole #QN54, 94.8' southwest of utility pole #QN35, and 97.0' northeast of a 24" magnolia.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 307 - REFERENCE MARK NO. 2." The disk is located 25.5' east of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 194.8' south of a "Stoplight Ahead" sign, and 144.8' northwest of a 24" magnolia.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 306 - REFERENCE MARK NO. 3 AZ." The disk is located 70.4' south of a "No U-Turn" sign, 3.7' east of the back of the curb of the eastbound lanes of U.S. Route 60 (Richmond Road), and 4.8' west of the back of the curb of the westbound lanes of U.S. Route 60 (Richmond Road).

STATION NAME:	307
Latitude (dms)	37 21 04.26870
Longitude (dms)	76 45 47.53261
State Plane Zone (4502)	Virginia South
Scale	0.999945442
Convergence (dms)	1 03 14.777

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

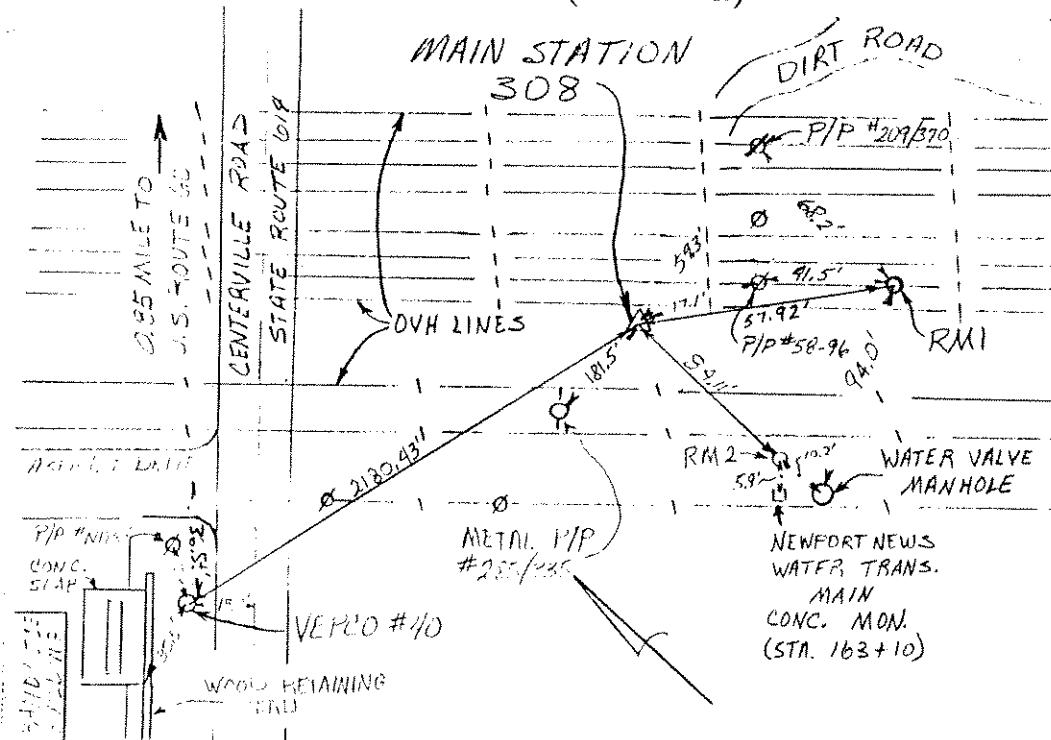
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
308	Meters	3653940.389	1112377.831
	U.S. Survey Ft.	11987969.427	3649526.268
	Int'l Ft.	11987993.403	3649533.567

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
VEPCO #40 (1990)	Meters	3653483.859	1112860.812
	U.S. Survey Ft.	11986471.628	3651110.846
	Int'l Ft.	11986495.601	3651118.149

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S43°53'58"E	57.77
RM2	S33°14'34"W	84.11
VEPCO #40 (1990)	N43°23'14"W	2180.43

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 113.37

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 98.04

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

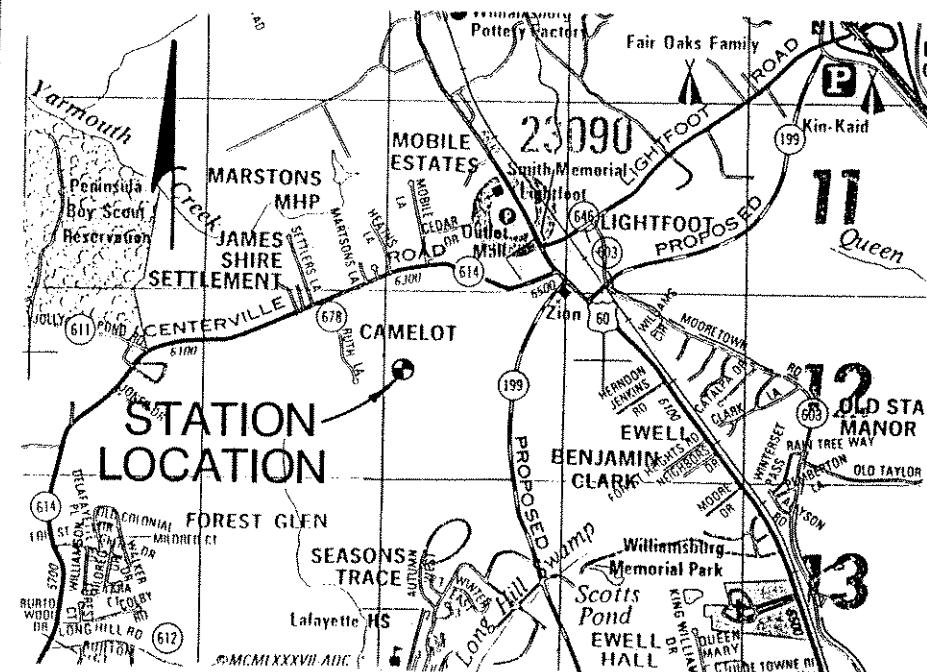
STATION NUMBER

308

FIELD BOOKS

P.S. 363, P. 76-77

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 308:

A 3¼" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 308." The disk is located on the south side of State Route 614 (Centerville Road) in a Virginia Power right-of-way, 17.1' northwest of wooden utility pole #58-96, 181.5' east of metal utility pole #285/335, and 59.3' southwest of utility pole #209/370.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 308 - REFERENCE MARK NO. 1." The disk is located 41.5' southeast of wooden utility pole #58-96, 68.2' south of utility pole #209/370, and 94.0' east of a water valve manhole.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 308 - REFERENCE MARK NO. 2." The disk is located 5.9' northeast of a Newport News Water Transmission Main concrete monument (Sta. 163+10), and 10.2' north of a water valve manhole.

REFERENCE MARK NO.

VEPCO #40 (1990):

A 3¼" disk in concrete, set flush with the ground surface, stamped "VEPCO #40." The disk is located 0.85 mile southwest of the intersection of U.S. Route 60 (Richmond Road) and State Route 614 (Centerville Road), 18.0' northwest of the center line of the pavement of State Route 614 (Centerville Road), 30.5' east of the southwest corner of a concrete slab, 10.6' southwest of utility pole #ND40, and 36.5±' southwest of the center of an asphalt drive beside the Handy Ice building.

STATION NAME:

308

Latitude (dms)

37 19 59.56880

Longitude (dms)

76 45 45.92734

State Plane Zone (4502) Virginia South

Scale

0.999945579

Convergence (dms)

1 03 15.752

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

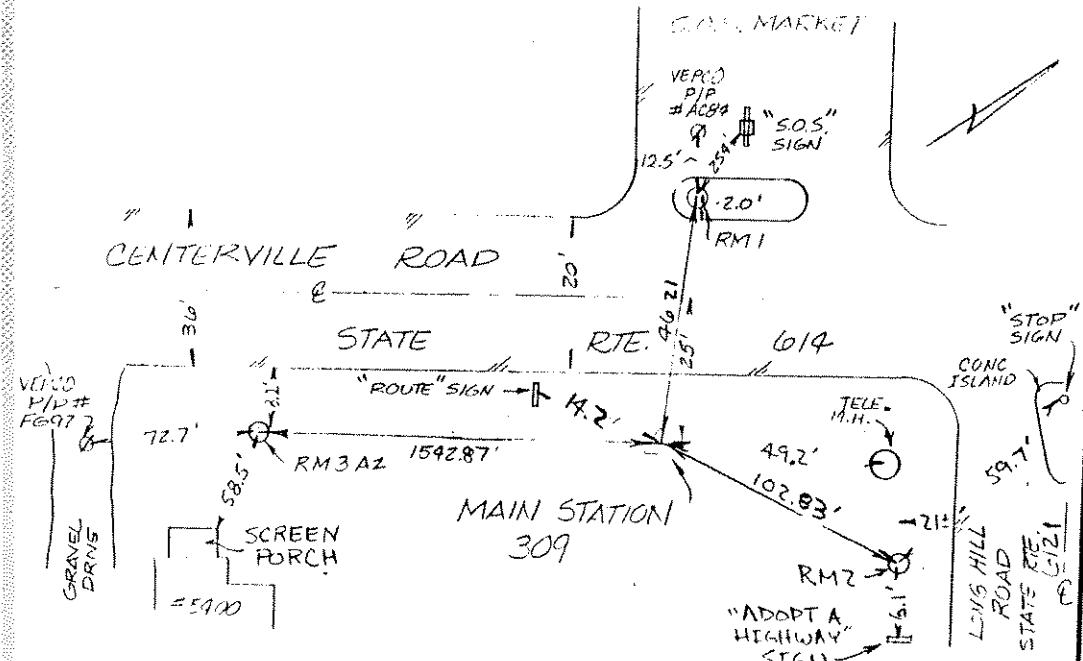
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
309 RESET 1990	Meters	3651592.878	1110443.947
	U.S. Survey Ft.	11980267.633	3643181.517
	Int'l Ft.	11980291.594	3643188.803
STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
	Meters	3651349.180	1110041.751
	U.S. Survey Ft.	11979468.102	3641861.977
309 RM3 AZ.	Int'l Ft.	11979492.061	3641869.260

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N52°05'55"W	46.21
RM2	N60°05'45"E	102.83
RM3 AZ.	S31°12'45"W	1542.87

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 101.76

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 114.00

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

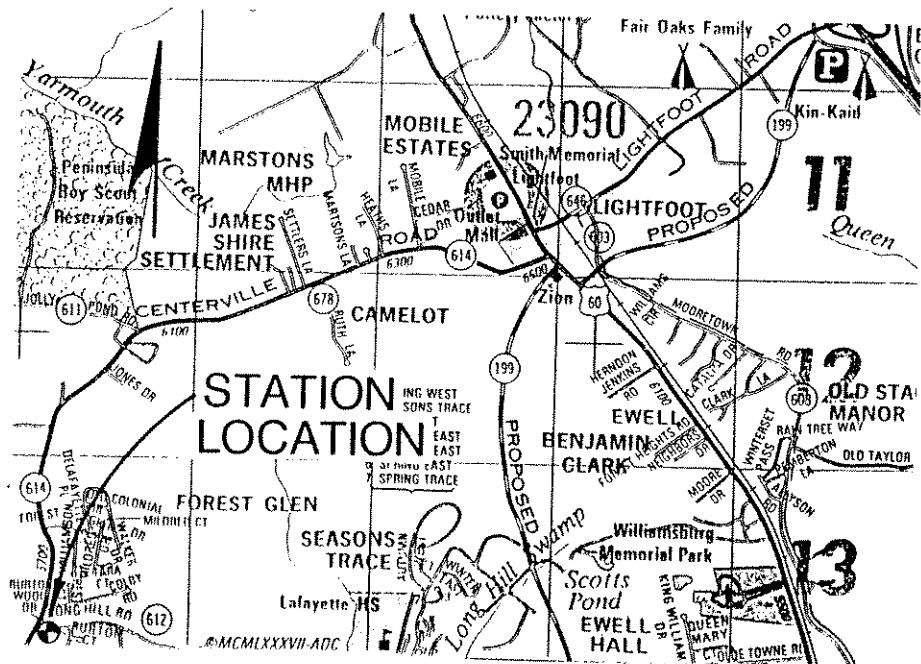
STATION NUMBER

309 RESET 1990

FIELD BOOKS

P.S. 363, P. 70-71
P.S. 365, P. 30-31, 48

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 309 RESET 1990:

A $\frac{3}{4}$ " disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 309 RESET 1990." The disk is located approximately 25' southeast of the center line of the pavement of State Route 614 (Centerville Road), 14.2' northeast of a "route" sign, and 49.2' southwest of a telephone manhole.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 309 - REFERENCE MARK NO. 1." The disk is located in a grass island, 2' west of the back of the curb on State Route 614 (Centerville Road), 12.5' southeast of utility pole #AC84, and 25.4' south of the concrete base of the "S.O.S. Market" sign.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 309 - REFERENCE MARK NO. 2." The disk is located $21\pm$ ' southwest of the center line of the pavement of State Route 612 (Long Hill Road), 57' east of a telephone manhole, 6.1' north of the "Adopt a Highway" sign, and 59.7' south of a "stop" sign in the concrete median at the intersection of State Route 614 (Centerville Road) and State Route 612 (Long Hill Road).

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 309 - REFERENCE MARK NO. 3 AZ." The disk is located 8.2' southeast of the east edge of the pavement of State Route 614 (Centerville Road), 58.5' northwest of a corner of the screened porch of residence #5400, and 72.7' northeast of utility pole #FG97.

STATION NAME:	309 RESET 1990
Latitude (dms)	37 18 58.23741
Longitude (dms)	76 47 22.70025
State Plane Zone (4502)	Virginia South
Scale	0.999945800
Convergence (dms)	1 02 17.018

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

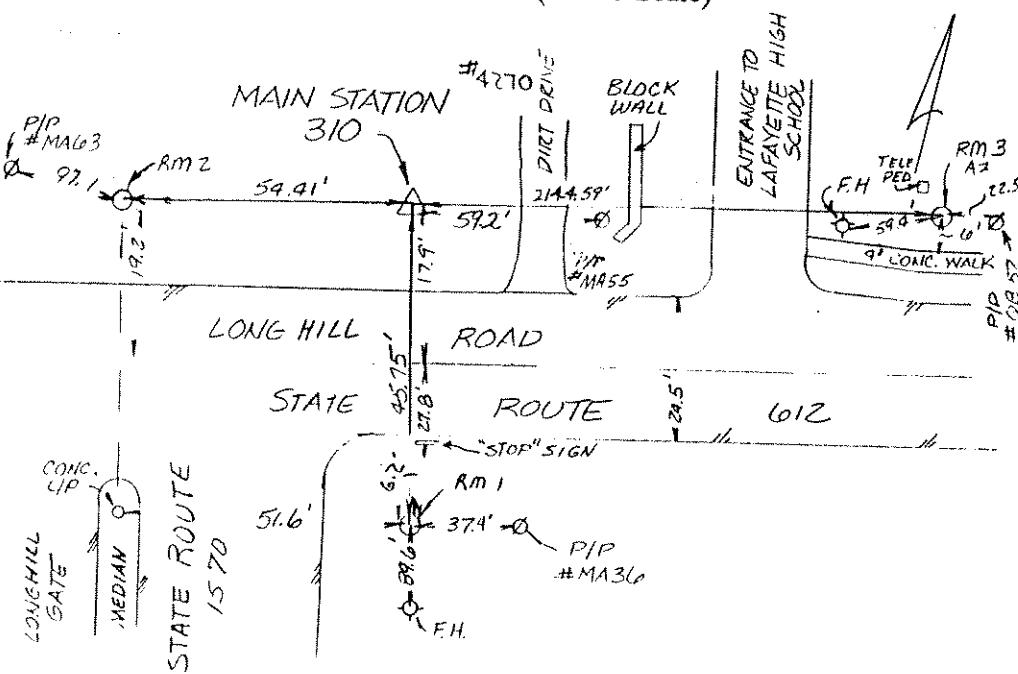
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
310	Meters	3653307.857	1110169.254
	U.S. Survey Ft.	11985894.196	3642280.294
	Int'l Ft.	11985918.167	3642287.579

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
310 RM3 AZ.	Meters	3653946.675	1110307.812
	U.S. Survey Ft.	11987990.049	3642734.879
	Int'l Ft.	11988014.025	3642742.165

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S12°10'01"E	45.75
RM2	S79°08'26"W	54.41
RM3 AZ.	N77°45'44"E	2144.59

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 65.86

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 46.12

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

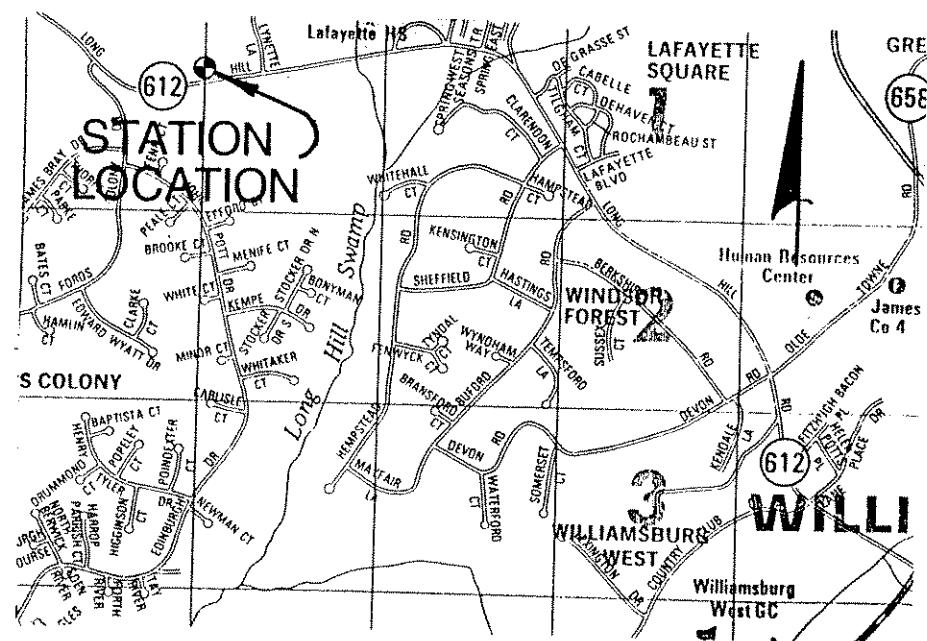
STATION NUMBER

310

FIELD BOOKS

P.S. 363, P. 64-65

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 310:

A 3 $\frac{1}{4}$ " disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 310." The disk is located near the intersection of State Route 612 (Long Hill Road) and State Route 1570 (Longhill Gate), 17.9' north of the center line of the pavement of State Route 612 (Long Hill Road) and 59.2' west of utility pole #MA55.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 310 - REFERENCE MARK NO. 1." The disk is located 27.8' south of the center line of the pavement of State Route 612 (Long Hill Road), 51.2' east of a concrete light pole located in the grass median of State Route 1570 (Longhill Gate), 37.4' west of utility pole #MA36, and 6.2' south of a "stop" sign.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 8" below the ground surface, stamped "STATION NO. 310 - REFERENCE MARK NO. 2." The disk is located 19.2' north of the center line of the pavement of State Route 612 (Long Hill Road) on the center line of the the median of State Route 1570 (Longhill Gate) extended, and 97.1' east of utility pole #MA63.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 310 - REFERENCE MARK NO. 3 AZ." The disk is located on the north side of State Route 612 (Long Hill Road) east of Lafayette High School entrance, 59.4' northeast of a fire hydrant, 6' north of the north edge of a 4' concrete walk, and 22.5' southwest of utility pole #QB52.

STATION NAME:	310
Latitude (dms)	37 18 48.31369
Longitude (dms)	76 46 13.26297
State Plane Zone (4502)	Virginia South
Scale	0.999945844
Convergence (dms)	1 02 59.161

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

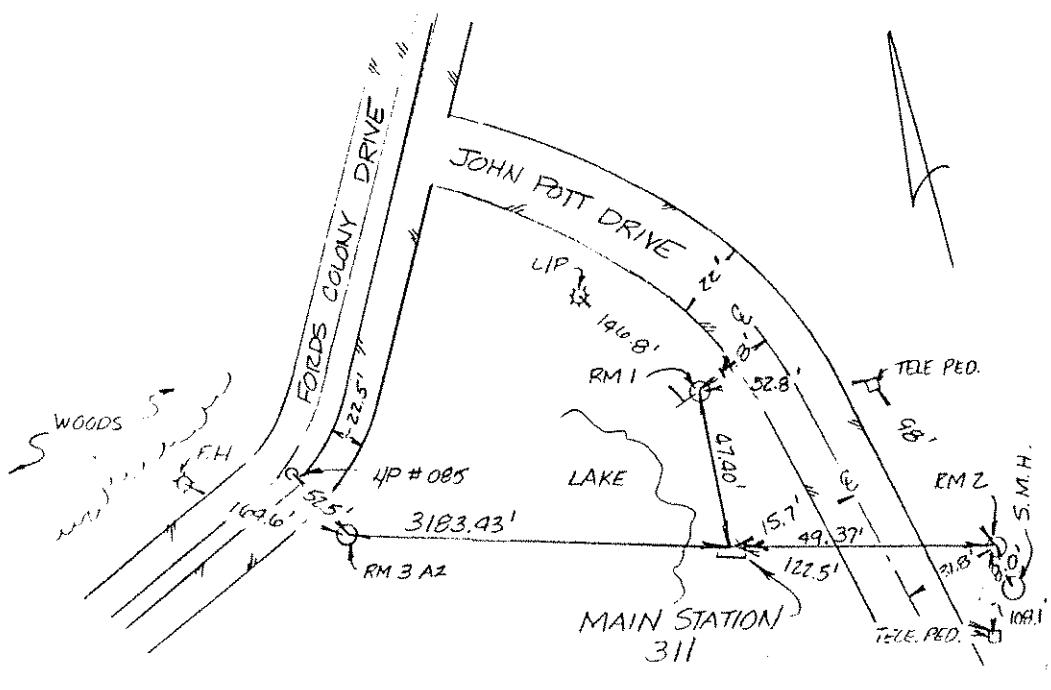
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
311	Meters	3653333.016	1109006.999
	U.S. Survey Ft.	11985976.737	3638467.129
	Int'l Ft.	11986000.709	3638474.406

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
311 RM3 AZ.	Meters	3652414.496	1109319.773
	U.S. Survey Ft.	11982963.225	3639493.287
	Int'l Ft.	11982987.191	3639500.566

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N18°09'24"E	47.40
RM2	S56°55'59"E	49.37
RM3 AZ.	N71°11'43"W	3183.43

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 48.11

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 57.89

COUNTY / CITY
JAMES CITY COUNTY

DISTRICT
POWHATAN

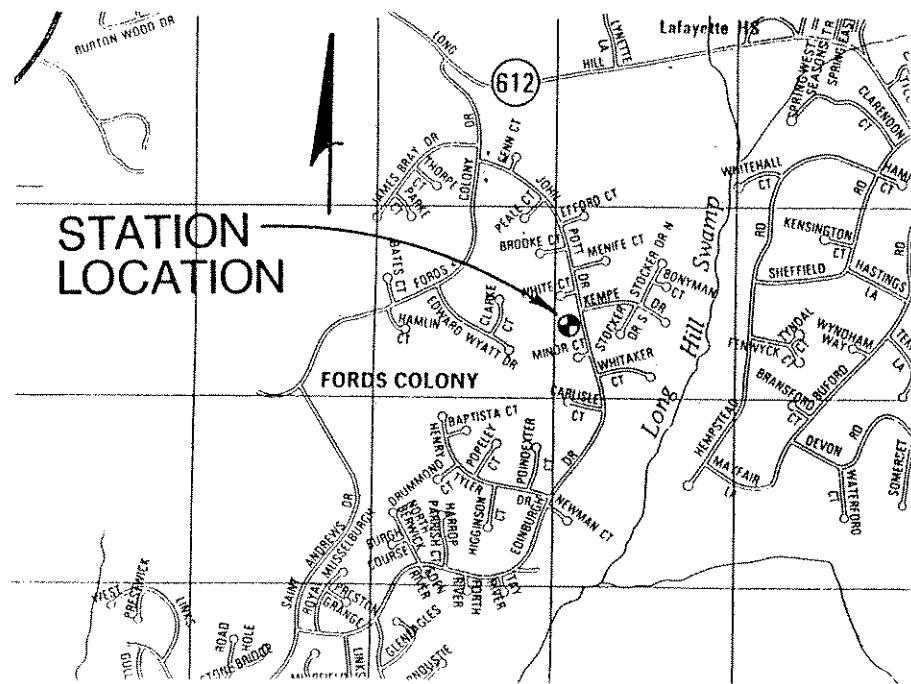
STATION NUMBER

311

FIELD BOOKS

P.S. 363, P. 66-67

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 311:

A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 311." The disk is located approximately 0.6 mile southeast of the intersection of John Pott Drive and Fords Colony Drive, 15.7' west of the center line of the pavement of John Pott Drive, 122.5' northwest of a telephone pedestal, and 55.5' southeast of an 18" oak.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 311 - REFERENCE MARK NO. 1." The disk is located 14.8' west of the center line of the pavement of John Pott Drive, 52.8' northwest of a telephone pedestal, 146.8' southeast of light pole #106, and 43.5' southeast of an 18" oak.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 311 - REFERENCE MARK NO. 2." The disk is located 31.8' east of the center line of the pavement of John Pott Drive, 8.0' north of a sanitary manhole, 108.1' northeast of a telephone pedestal and 98' southeast of another telephone pedestal.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 311 - REFERENCE MARK NO. 3 AZ." The disk is located approximately 0.5 mile southwest of the intersection of John Pott Drive and Fords Colony Drive, 8.4' southeast of the east edge of the pavement of Fords Colony Drive, 164.6' southeast of a fire hydrant, and 52.5' southeast of light pole #085.

STATION NAME: 311

Latitude (dms) 37 18 10.60264

Longitude (dms) 76 46 13.10618

State Plane Zone (4502) Virginia South

Scale 0.999946033

Convergence (dms) 1 02 59.256

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

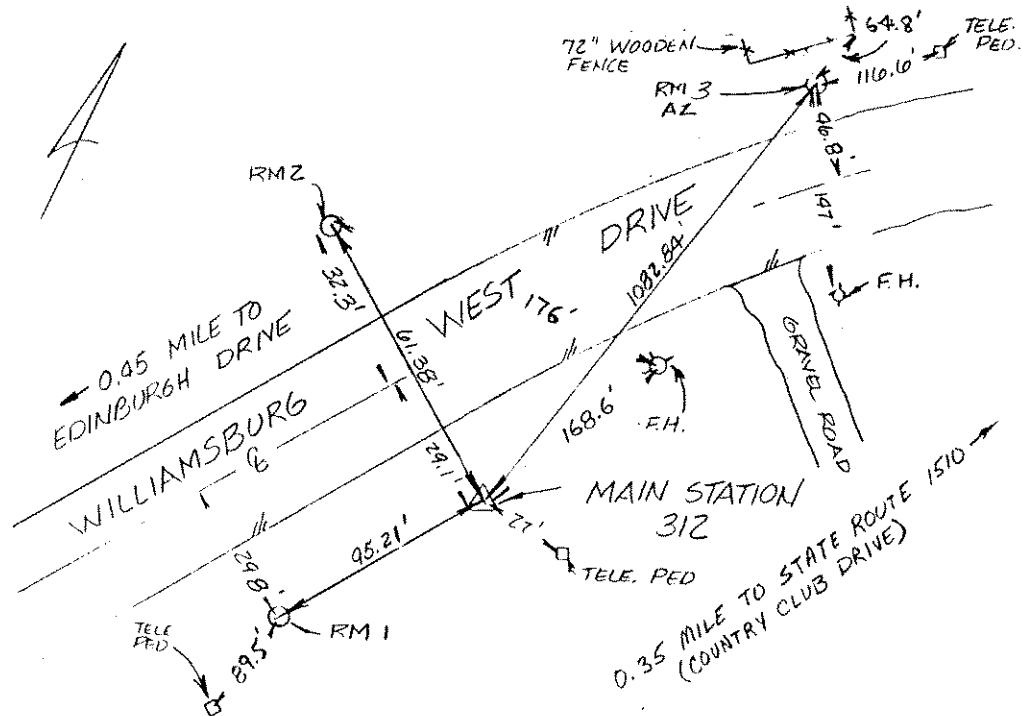
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
312	Meters	3654676.837	1108341.374
	U.S. Survey Ft.	11990385.589	3636283.323
	Int'l Ft.	11990409.569	3636290.596

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
312 RM3 AZ.	Meters	3654820.436	1108638.546
	U.S. Survey Ft.	11990856.714	3637258.298
	Int'l Ft.	11990880.696	3637265.572

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S38°17'18"E	95.21
RM2	N49°53'22"W	61.38
RM3 AZ.	N25°47'26"E	1082.84

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 74.23

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 83.31

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

BERKELEY

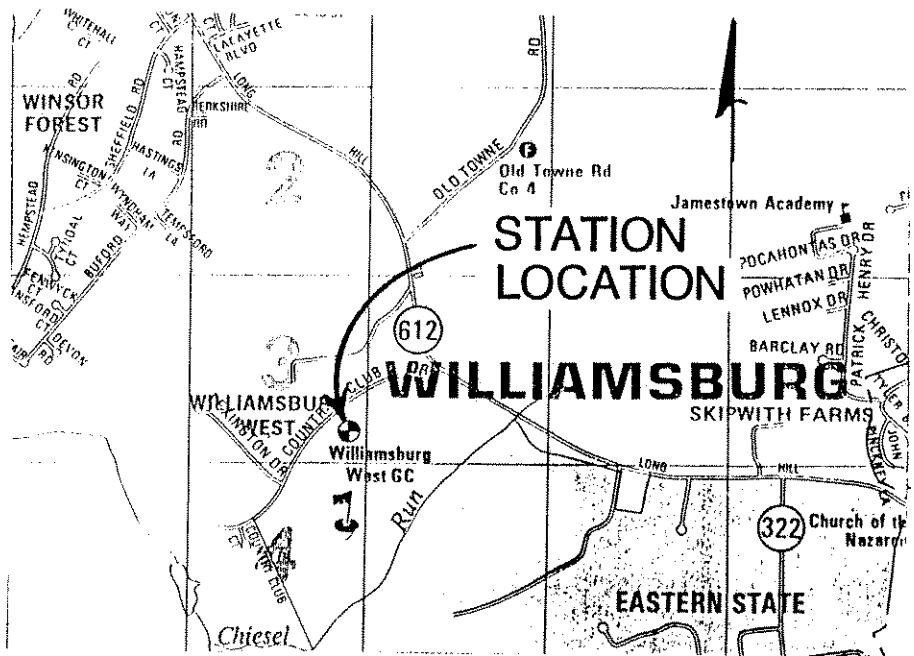
STATION NUMBER

312

FIELD BOOKS

P.S. 363, P. 68-69

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 312:

A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 312." The disk is located on Williamsburg West Drive 0.45 mile east of the intersection of Williamsburg West Drive and Edinburgh Drive, 0.35 mile west of State Route 1510 (Country Club Drive), 29.1' southeast of the center line of the pavement of Williamsburg West Drive, 27' northwest of a telephone pedestal and 168.6' southwest of a fire hydrant.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 312 – REFERENCE MARK NO. 1." The disk is located 29.8' southeast of the center line of the pavement of Williamsburg West Drive and 89.5' northeast of a telephone pedestal.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 312 – REFERENCE MARK NO. 2." The disk is located 32.3' northwest of the center line of the pavement of Williamsburg West Drive and 176' northwest of a fire hydrant.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 312 – REFERENCE MARK NO. 3 AZ." The disk is located 46.8' northwest of the center line of the pavement of Williamsburg West Drive, 64.8' south of the northeast corner of a 72" wooden fence, and 116.6' southwest of a telephone pedestal.

STATION NAME:

312

Latitude (dms)

37 17 48.21189

Longitude (dms)

76 45 19.04517

State Plane Zone (4502) Virginia South

Scale

0.999946160

Convergence (dms)

1 03 32.067

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

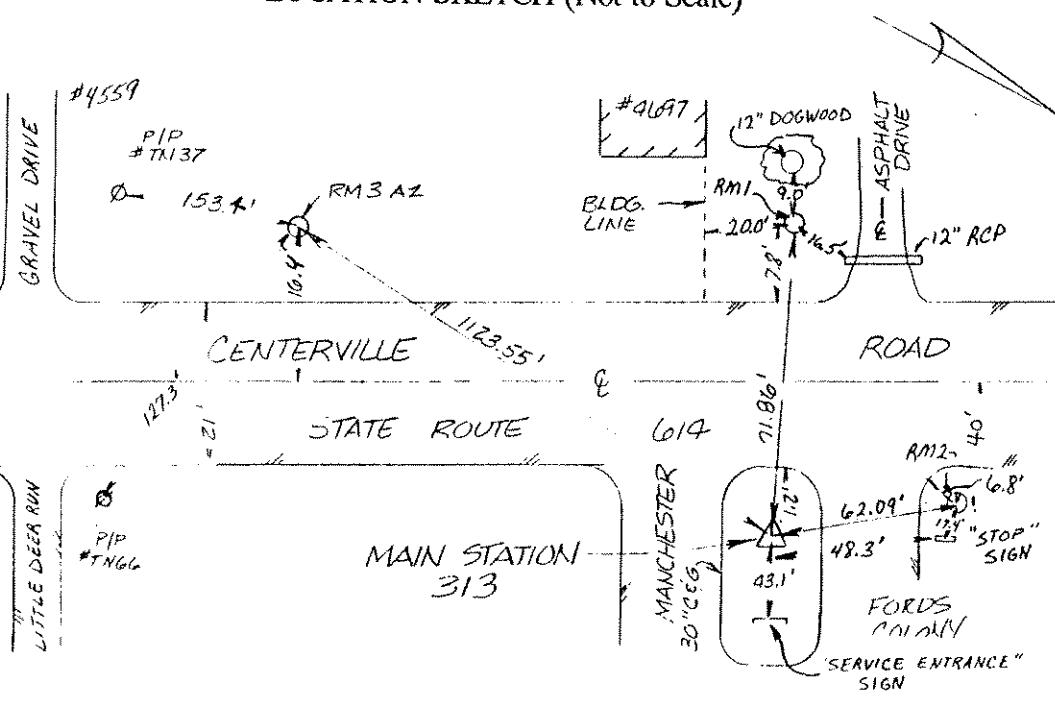
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
313	Meters	3650805.811	1107883.660
	U.S. Survey Ft.	11977685.399	3634781.641
	Int'l Ft.	11977709.355	3634788.910

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
313 RM3 AZ.	Meters	3650784.535	1107541.862
	U.S. Survey Ft.	11977615.597	3633660.260
	Int'l Ft.	11977639.552	3633667.528

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N87°59'02"W	71.86
RM2	N10°37'16"W	62.09
RM3 AZ.	S03°33'43"W	1123.55

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 97.45

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 93.86

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

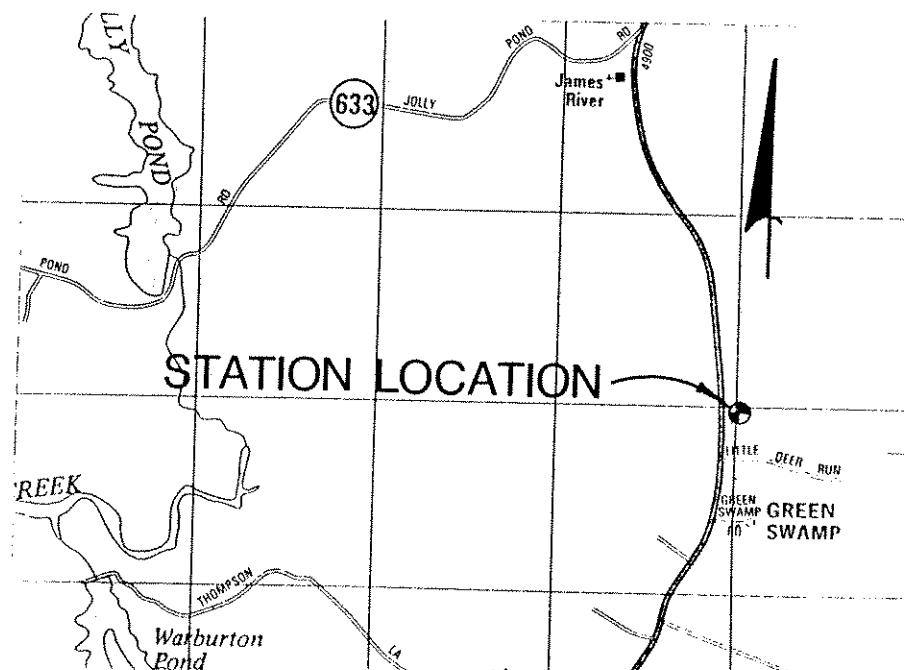
STATION NUMBER

313

FIELD BOOKS

P.S. 363, P. 44-45

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 313:

A 3½" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 313." The disk is located in grass median of Manchester Road (the service entrance for Fords Colony), 1.2' northeast of the back of the curb, 43.1' southwest of the "service entrance" sign and 48.3' southeast of a "stop" sign.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 313 - REFERENCE MARK NO. 1." The disk is located 7.8' northwest of the west edge of the pavement of State Route 614 (Centerville Road), 20.0' north of the north building line of building #4697, 9.0' northeast of a 12" dogwood, and 16.5' south of the south end of a 12" concrete pipe under an asphalt drive.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 313 - REFERENCE MARK NO. 2." The disk is located 40' southwest of the center line of the pavement of State Route 614 (Centerville Road), 6.8' northeast of the edge of the pavement, and 17.4' northwest of a "stop" sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 313 - REFERENCE MARK NO. 3 AZ." The disk is located 16.4' northwest of the center line of the pavement of State Route 614 (Centerville Road), 153.4' north of utility pole #TN37 and 127.3' northwest of utility pole #TN66.

STATION NAME:	313
Latitude (dms)	37 17 35.65808
Longitude (dms)	76 47 56.53611
State Plane Zone (4502)	Virginia South
Scale	0.999946237
Convergence (dms)	1 01 56.482

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

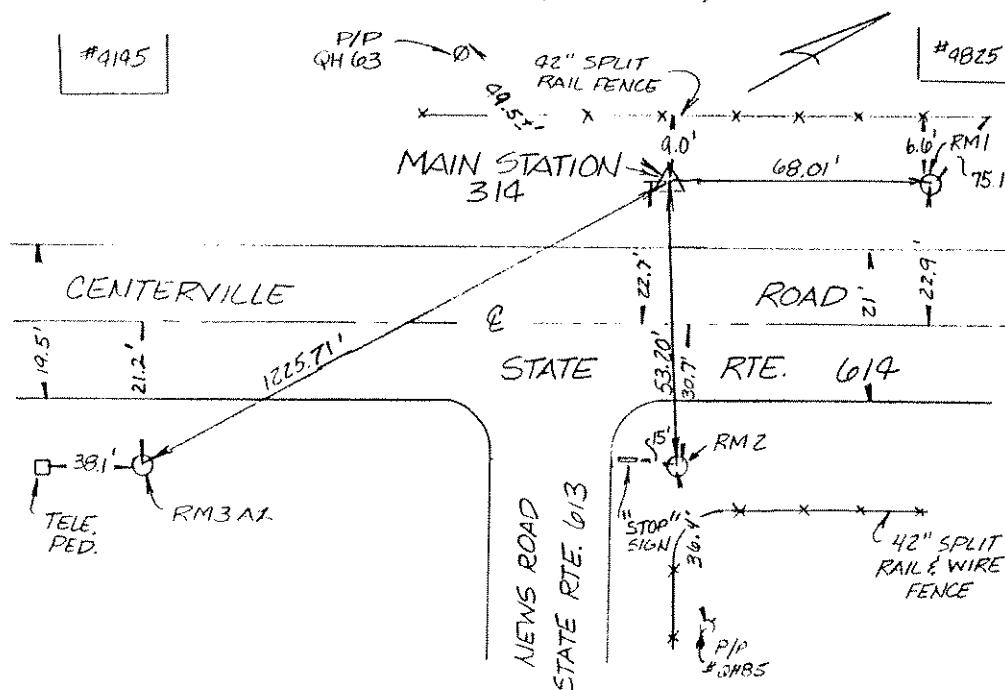
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
314	Meters	3650324.009	1106577.849
	U.S. Survey Ft.	11976104.687	3630497.494
	Int'l Ft.	11976128.639	3630504.755

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
314 RM3 AZ.	Meters	3650224.996	1106217.611
	U.S. Survey Ft.	11975779.842	3629315.611
	Int'l Ft.	11975803.793	3629322.870

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N20°26'32"E	68.01
RM2	S72°20'39"E	53.20
RM3 AZ.	S15°22'06"W	1225.71

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 87.41

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 75.15

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

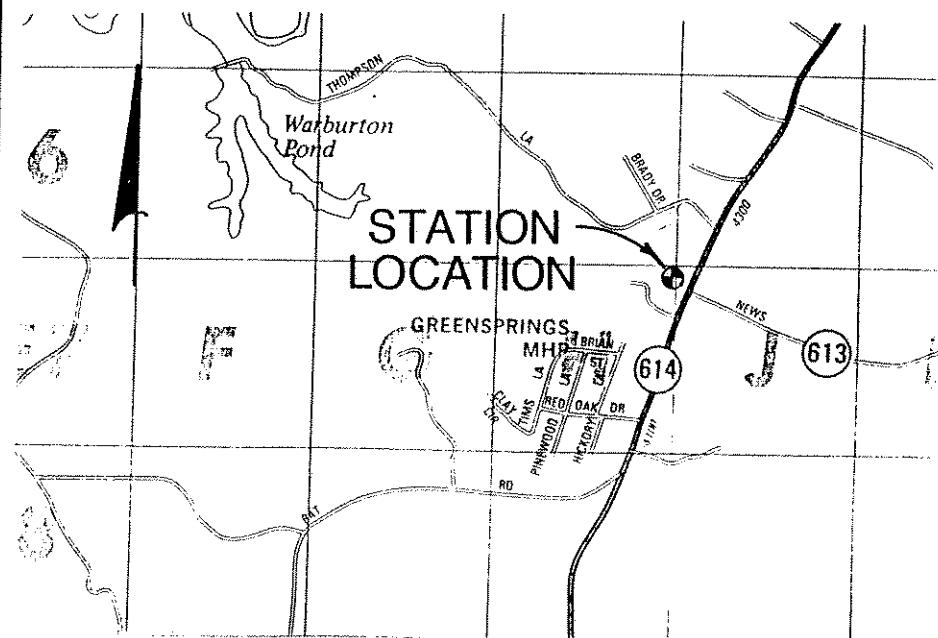
STATION NUMBER

314

FIELD BOOKS

P.S. 363, P. 42-43

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 314:

A 3 $\frac{1}{4}$ " disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 314." The disk is located near the intersection of State Route 614 (Centerville Road) and State Route 613 (News Road), 22.7' northwest of the center line of the pavement of State Route 614 (Centerville Road), 9.0' southeast of a 42" split rail fence and 49.5±' northeast of utility pole #QH63.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 314 – REFERENCE MARK NO. 1." The disk is located 22.9' northwest of the center line of the pavement of State Route 614 (Centerville Road), 6.6' southeast of a 42" split rail fence and 75.1' south from the end of the 42" split rail fence.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 314 – REFERENCE MARK NO. 2." The disk is located 30.7' southeast of the center line of the pavement of State Route 614 (Centerville Road), 15' north of a "stop" sign at the southeast corner intersection of State Route 614 (Centerville Road) and State Route 613 (News Road), and 36.4' southwest of utility pole #QH85.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 314 – REFERENCE MARK NO. 3 AZ." The disk is located 21.2' southeast of the center line of the pavement of State Route 614 (Centerville Road) and 38.1' northeast of a telephone pedestal.

STATION NAME:

314

Latitude (dms)

37 16 53.58670

Longitude (dms)

76 48 17.04751

State Plane Zone (4502) Virginia South

Scale

0.999946521

Convergence (dms)

1 01 44.033

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

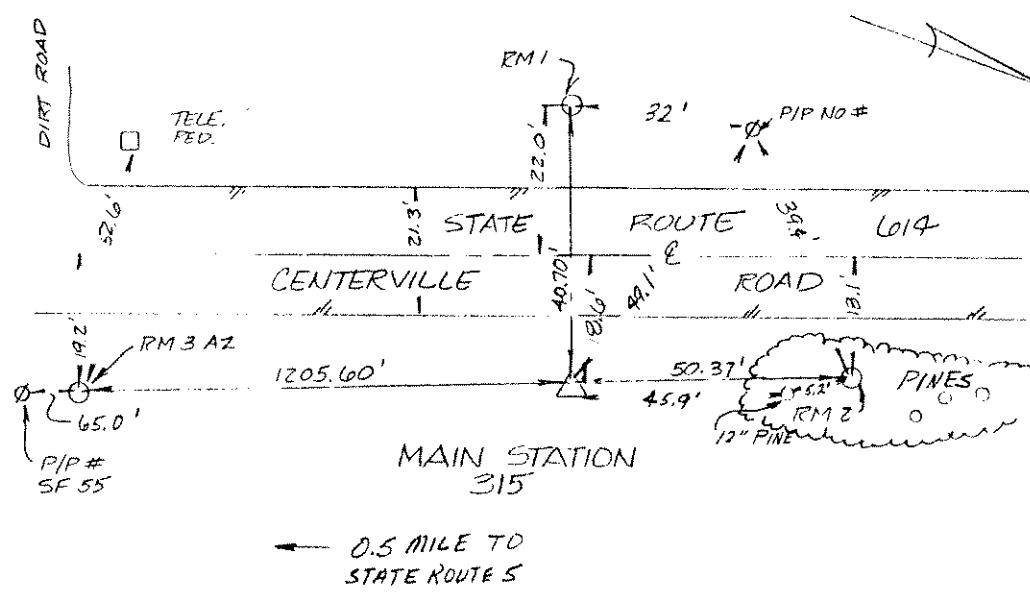
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
315	Meters	3650461.504	1104322.954
	U.S. Survey Ft.	11976555.785	3623099.559
	Int'l Ft.	11976579.739	3623106.805

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
315 RM3 AZ.	Meters	3650622.856	1103992.805
	U.S. Survey Ft.	11977085.154	3622016.393
	Int'l Ft.	11977109.108	3622023.637

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S66°06'04"E	40.70
RM2	N26°51'05"W	50.37
RM3 AZ.	S26°02'45"E	1205.60

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 64.80

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 55.88

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

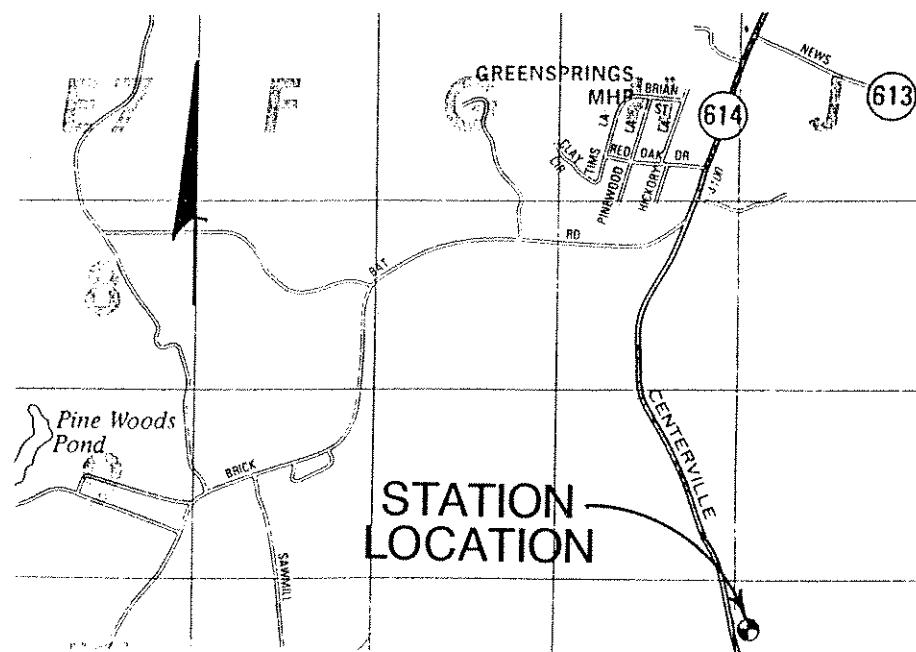
STATION NUMBER

315

FIELD BOOKS

P.S. 363, P. 40, 41

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 315:

A 3½" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 315." The disk is located on State Route 614 (Centerville Road) approximately 0.5 mile north of State Route 5 (John Tyler Highway), 18.6' east of the center line of the pavement of State Route 614 (Centerville Road), 49.1' southeast of a utility pole, and 45.9' southeast of a 12" pine.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 315 – REFERENCE MARK NO. 1." The disk is located 22' west of the center line of the pavement of State Route 614 (Centerville Road), and 32.0' south of a utility pole.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 315 – REFERENCE MARK NO. 2." The disk is located 18.1' east of the center line of the pavement of State Route 614 (Centerville Road), 39.1' northeast of a utility pole, and 5.2' northwest of a 12" pine.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 315 – REFERENCE MARK NO. 3 AZ." The disk is located 19.2' east of the center line of the pavement of State Route 614 (Centerville Road), 65.0' northwest of a utility pole #SF55, and 52.6' southeast of a telephone pedestal.

STATION NAME:	315
Latitude (dms)	37 15 40.37138
Longitude (dms)	76 48 13.11142
State Plane Zone (4502)	Virginia South
Scale	0.999947113
Convergence (dms)	1 01 46.422

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

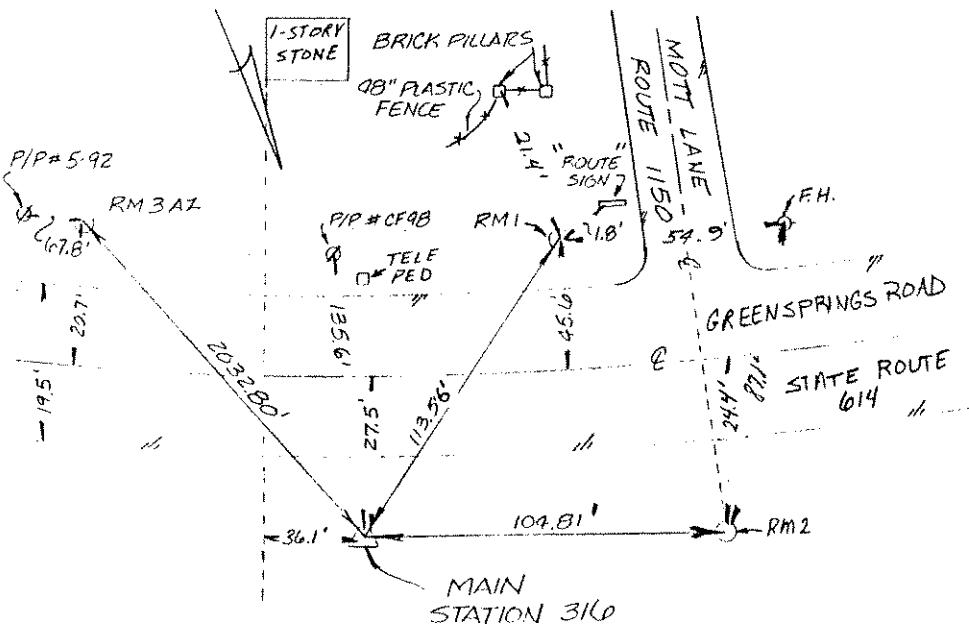
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
316	Meters	3652024.009	1101738.170
	U.S. Survey Ft.	11981682.102	3614619.314
	Int'l Ft.	11981706.066	3614626.543
STA. AZIMUTH MARK 316 RM3 AZ.	UNITS	EASTING (X)	NORTHING (Y)
	Meters	3652270.627	1101169.769
	U.S. Survey Ft.	11982491.214	3612754.483
	Int'l Ft.	11982515.179	3612761.709

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N77°18'26"W	113.56
RM2	N39°22'02"W	104.81
RM3 AZ.	S23°27'18"E	2032.80

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 27.17

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 26.63

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

BERKELEY

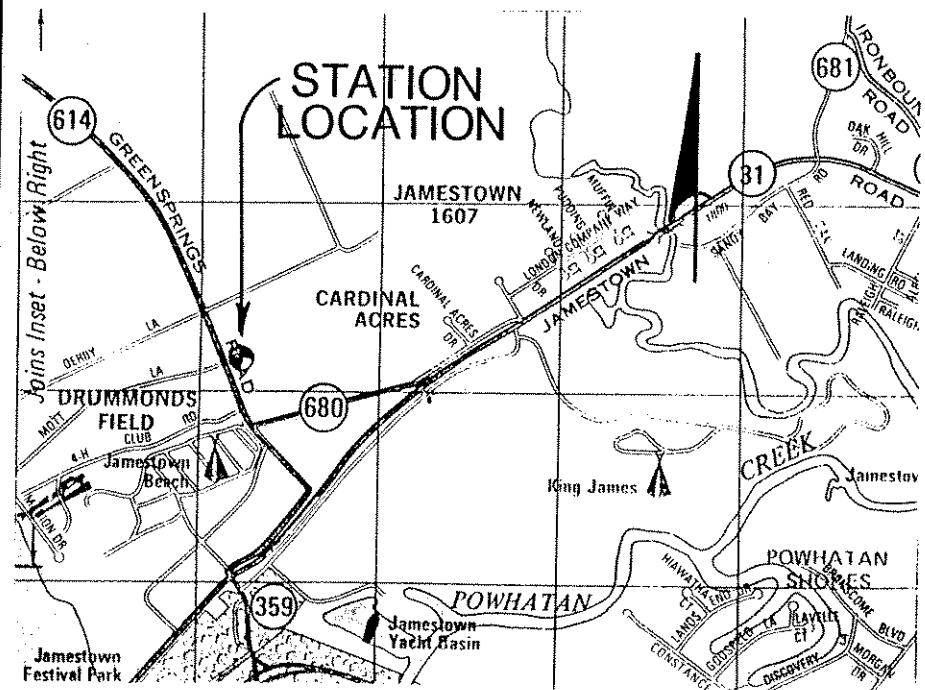
STATION NUMBER

316

FIELD BOOKS

P.S. 363, P. 38-39

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 316: A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 316." The disk is located near the intersection of State Route 614 (Greensprings Road) and State Route 1150 (Mott Lane), 27.5' northeast of the center line of the pavement of State Route 614 (Greensprings Road), 36.1' west of the eastern building line extended of a one-story stone residence, and 135.6' northwest of utility pole #CF98.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 316 – REFERENCE MARK NO. 1." The disk is located 45.6' southwest of the center line of the pavement of State Route 614 (Greensprings Road), 21.4' northeast of a brick pillar, 1.8' east of a "route" sign, and 54.9' southeast of a fire hydrant.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 316 – REFERENCE MARK NO. 2." The disk is located 24.4' northeast of the center line of the pavement of State Route 614 (Greensprings Road) on the center line of the pavement extended of State Route 1150 (Mott Lane), and 87.1' northeast of a fire hydrant.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 316 – REFERENCE MARK NO. 3 AZ." The disk is located 20.7' southwest of the center line of the pavement of State Route 614 (Greensprings Road), and 67.8' northwest of utility pole #5-92.

STATION NAME:	316
Latitude (dms)	37 14 15.62114
Longitude (dms)	76 47 11.61073
State Plane Zone (4502)	Virginia South
Scale	0.999947955
Convergence (dms)	1 02 23.748

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

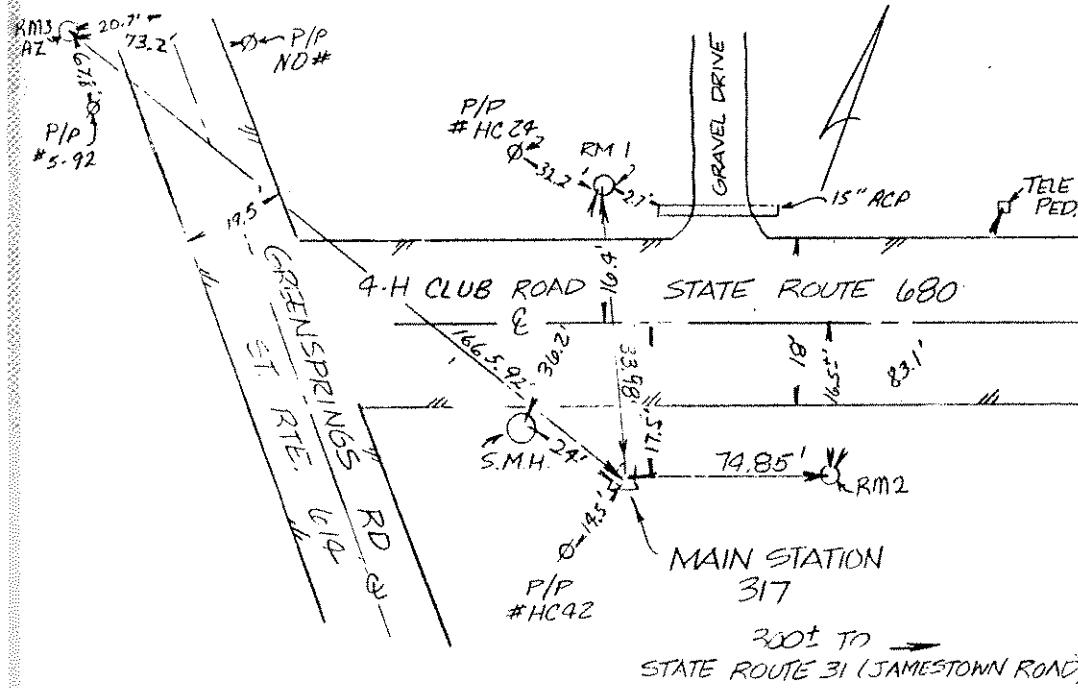
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
317	Meters	3652778.271	1101181.167
	U.S. Survey Ft.	11984156.711	3612791.878
	Int'l Ft.	11984180.679	3612799.103

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
316 RM3 AZ.	Meters	3652270.627	1101169.769
	U.S. Survey Ft.	11982491.214	3612754.483
	Int'l Ft.	11982515.179	3612761.709

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N20°37'53"W	33.98
RM2	N72°53'01"E	74.85
RM3 AZ.	S88°42'50"W	1665.92

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 31.01

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 26.63

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

BERKELEY

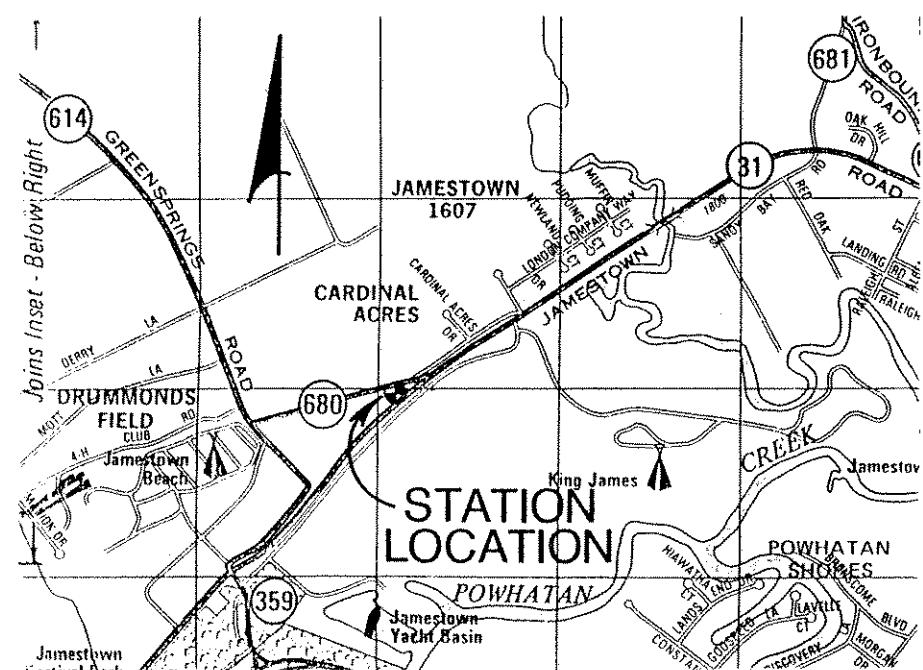
STATION NUMBER

317

FIELD BOOKS

P.S. 363, P. 36-38

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 317:

A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 317." The disk is located 300'± west of State Route 31 (Jamestown Road), 17.5±' south of the center line of the pavement of State Route 680 (4-H Club Road), 24' east of a sanitary manhole, and 14.5' north of utility pole #HC42.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 317 – REFERENCE MARK NO. 1." The disk is located 16.1' north of the center line of the pavement of State Route 680 (4-H Club Road), 32.2' east of utility pole #HC24, 36.2' north of a sanitary manhole, and 2.7' northwest of the west end of a 15" concrete pipe.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 317 – REFERENCE MARK NO. 2." The disk is located 16.5±' south of the center line of the pavement of State Route 680 (4-H Club Road), and 83.1' south of a telephone pedestal.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 316 – REFERENCE MARK NO. 3 AZ." The disk is located 20.7' southwest of the center line of the pavement of State Route 614 (Greensprings Road), 67.8' northwest of utility pole #5-92, and 73.2' northwest of another utility pole.

STATION NAME:

317

Latitude (dms)

37 13 57.11013

Longitude (dms)

76 46 41.42540

State Plane Zone (4502) Virginia South

Scale

0.999948162

Convergence (dms)

1 02 42.068

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

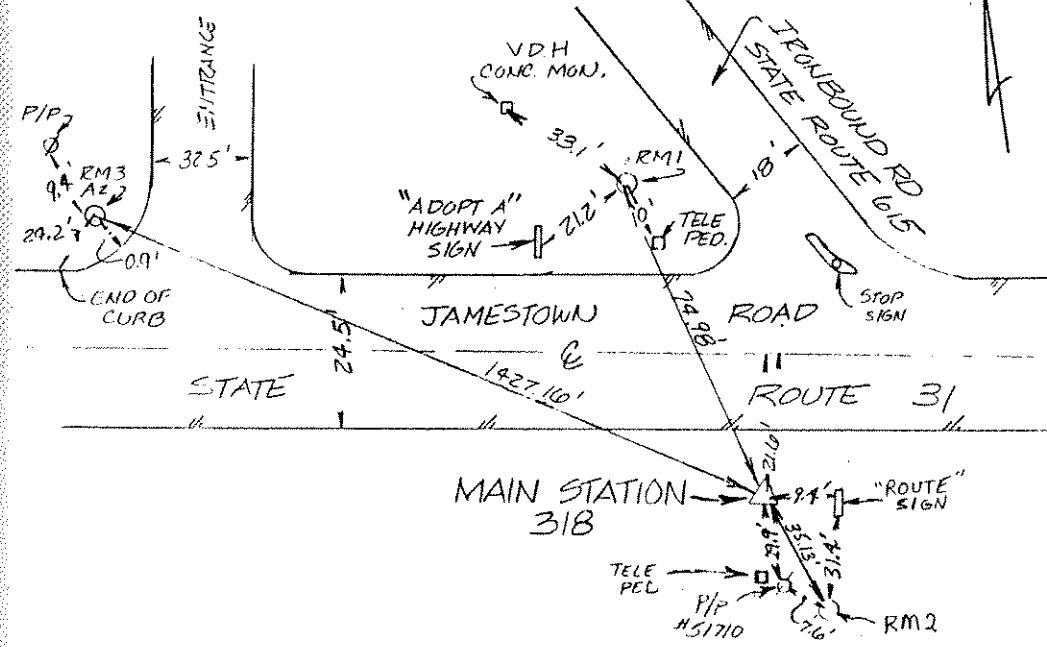
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
318	Meters	3654579.292	1101806.837
	U.S. Survey Ft.	11990065.561	3614844.596
	Int'l Ft.	11990089.541	3614851.826
318 RM3 AZ.	UNITS	EASTING (X)	NORTHING (Y)
	Meters	3654180.669	1101980.971
	U.S. Survey Ft.	11988757.745	3615415.903
	Int'l Ft.	11988781.723	3615423.134

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N12°13'23"W	74.98
RM2	S06°49'18"W	35.13
RM3 AZ.	N66°24'08"W	1427.16

LOCATION SKETCH (Not to Scale)

JAMESTOWN CENTER



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 46.46

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 44.44

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

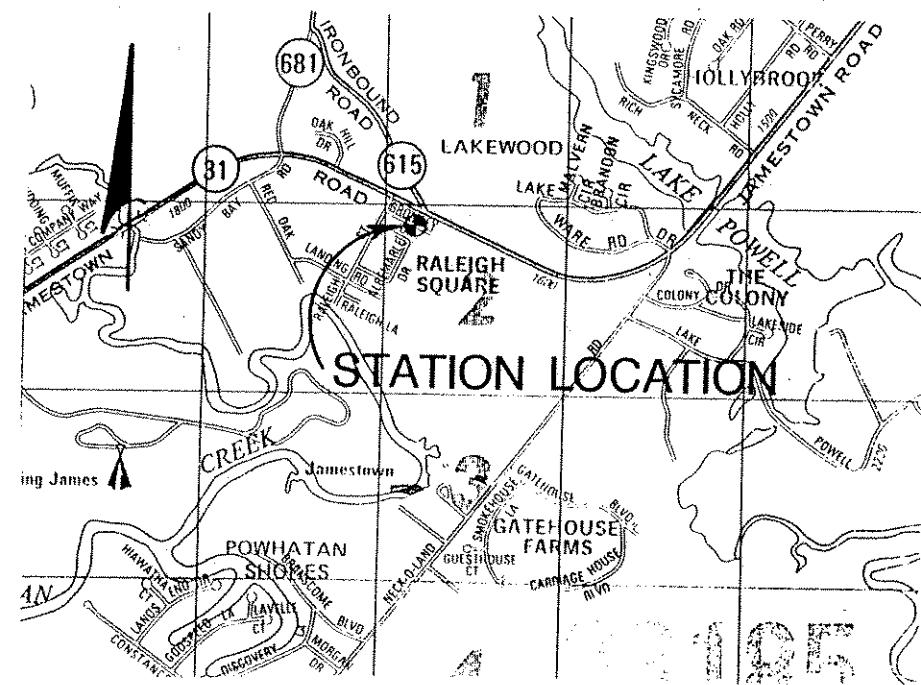
STATION NUMBER

318

FIELD BOOKS

P.S. 363, P. 34-36

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 318:

A 3½" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 318." The disk is located near the intersection of State Route 31 (Jamestown Road) and State Route 615 (Ironbound Road), 21.6' south of the center line of the pavement of State Route 31 (Jamestown Road), 29.9' northeast of utility pole #51710, and 9.4' west of a "route" sign.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 318 – REFERENCE MARK NO. 1." The disk is located on the northwest corner of State Route 31 (Jamestown Road) intersection with State Route 615 (Ironbound Road), 21.2' northeast of an "Adopt a Highway" sign, 10' north of a telephone pedestal, and 33.1' southeast of a Virginia Department of Highways concrete monument.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 318 – REFERENCE MARK NO. 2." The disk is located 57' south of the center line of the pavement of State Route 31 (Jamestown Road), 31.4' southwest of a "route" sign, and 7.6' southeast of utility pole #51710.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 318 – REFERENCE MARK NO. 3 AZ." The disk is located on the north side of State Route 31 (Jamestown Road), 0.9' from the back of the curb return on the west side of the entrance to Jamestown Center, 24.2' northeast from the end of the curb, and 9.4' south of a utility pole.

STATION NAME: 318

Latitude (dms) 37 14 16.33119

Longitude (dms) 76 45 27.90179

State Plane Zone (4502) Virginia South

Scale 0.999947948

Convergence (dms) 1 03 26.692

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

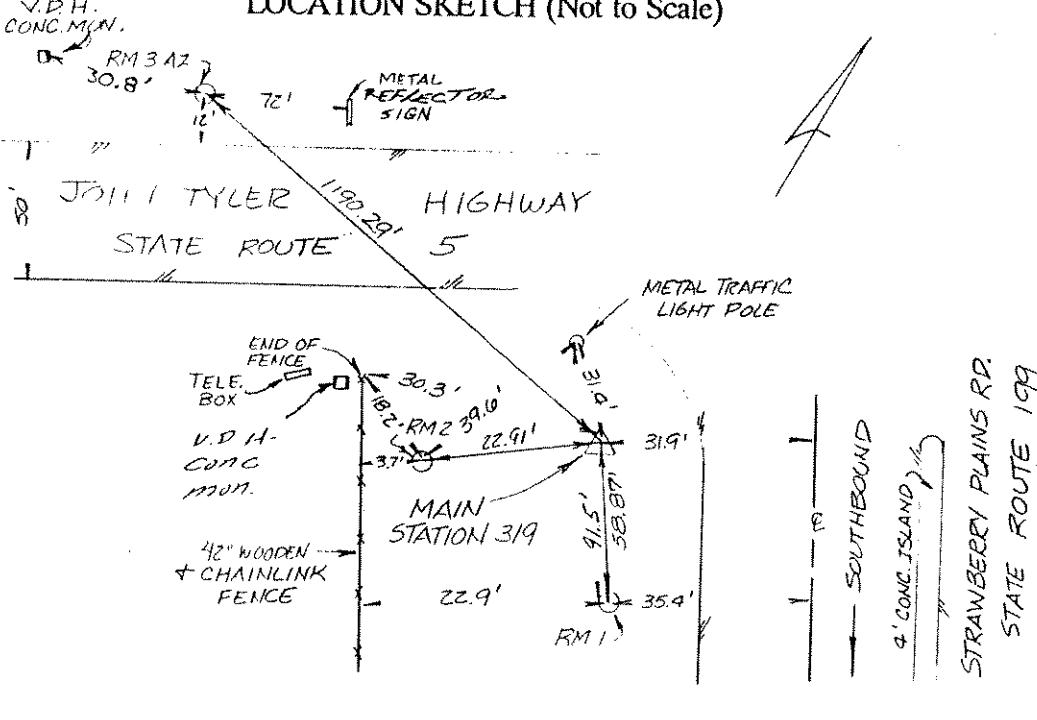
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
319	Meters	3656363.460	1104146.809
	U.S. Survey Ft.	11995919.117	3622521.654
	Int'l Ft.	11995943.109	3622528.899

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
319 RM3 AZ.	Meters	3656012.886	1104240.209
	U.S. Survey Ft.	11994768.944	3622828.085
	Int'l Ft.	11994792.934	3622835.331

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S12°09'22"E	58.87
RM2	S66°16'28"W	22.91
RM3 AZ.	N75°04'54"W	1190.29

LOCATION SKETCH (Not to Scale)

VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 101.31

**FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE**

Elevation of Azimuth Mark in Feet = 103.44

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

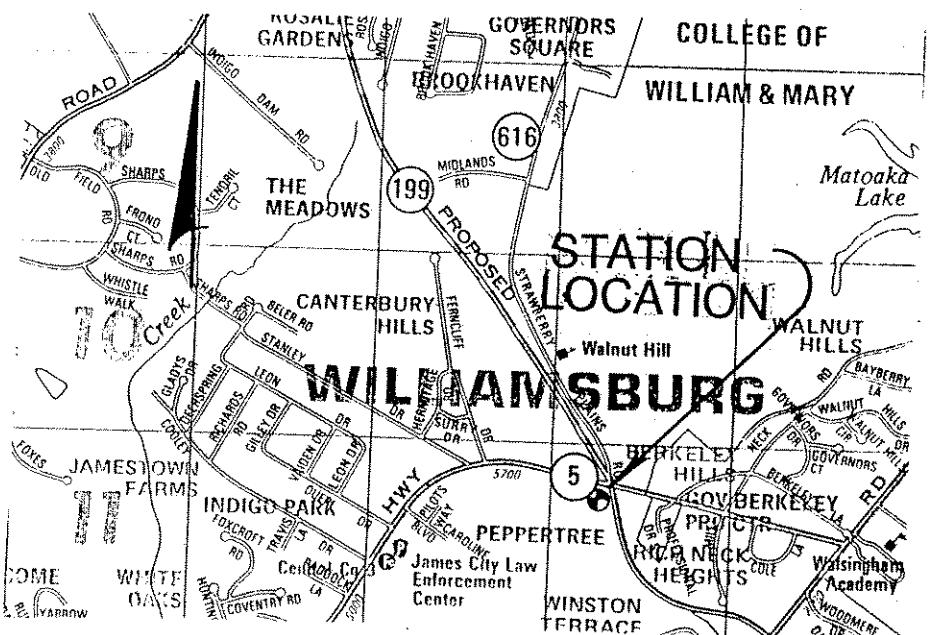
JAMESTOWN

STATION NUMBER

319

FIELD BOOKS

P.S. 363, P. 46-48

LOCATION MAP (Scale: 1"=2000')


STATION DESCRIPTION

STATION NO. 319:

A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 319." The disk is located at the southwest corner of the intersection of State Route 5 (John Tyler Highway) and State Route 199 (Strawberry Plains Road), 31.9' southwest of the center line of the pavement of the southbound lanes of State Route 199 (Strawberry Plains Road), 31.4' southeast of a metal traffic light pole, 30.3' east of the end of a 42" wooden and chainlink fence.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 319 – REFERENCE MARK NO. 1." The disk is located 35.4' southwest of the center line of the pavement of the southbound lanes of State Route 199 (Strawberry Plains Road), 22.9' northeast of a 42" wooden and chainlink fence, and 91.5' southeast of a metal traffic light pole.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 319 – REFERENCE MARK NO. 2." The disk is located 3.7' northeast of a 42" wooden and chainlink fence, 18.2' southeast of the end of the 42" wooden and chainlink fence, and 39.6' southwest of a metal traffic light pole.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 319 – REFERENCE MARK NO. 3 AZ." The disk is located on the north side of State Route 5 (John Tyler Highway), 12' northeast of the north edge of the pavement of State Route 5 (John Tyler Highway), 72' southwest of a metal reflector sign, and 30.8' northeast of a Virginia Department of Highways concrete monument.

STATION NAME:	319
Latitude (dms)	37 15 31.15078
Longitude (dms)	76 44 13.75267
State Plane Zone (4502)	Virginia South
Scale	0.999947197
Convergence (dms)	1 04 11.695

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

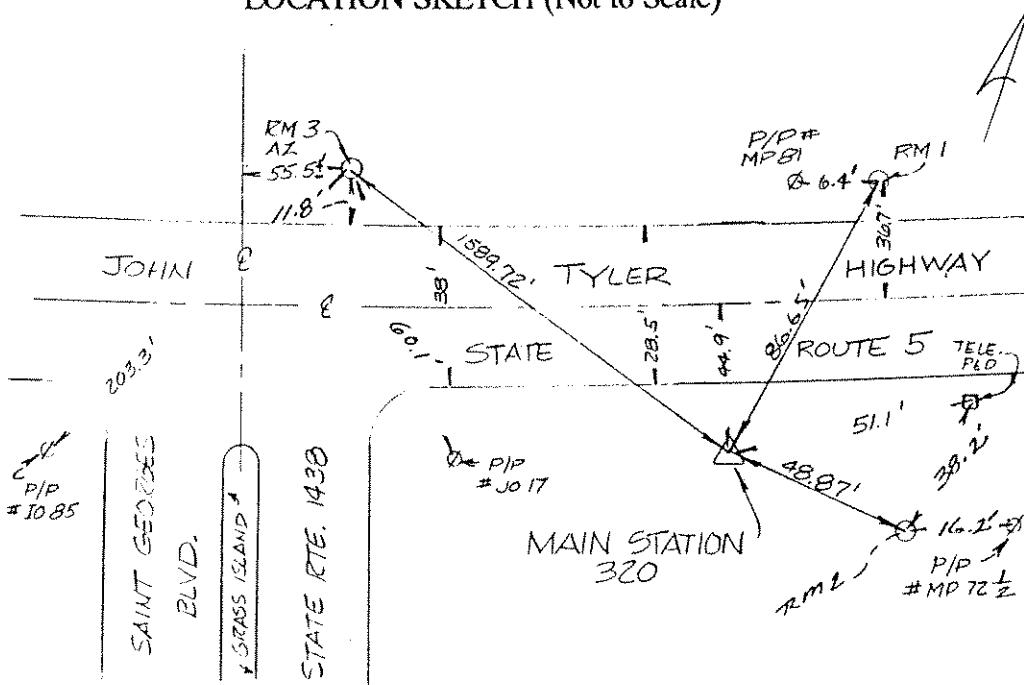
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
320	Meters	3653374.900	1103035.785
	U.S. Survey Ft.	11986114.151	3618876.571
	Int'l Ft.	11986138.124	3618883.809

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
320 RM3 AZ.	Meters	3652891.955	1103075.170
	U.S. Survey Ft.	11984529.688	3619005.786
	Int'l Ft.	11984553.658	3619013.024

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N05°25'11"E	86.65
RM2	S84°43'43"E	48.87
RM3 AZ.	N85°20'16"W	1589.72

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 30.18

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 21.05

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

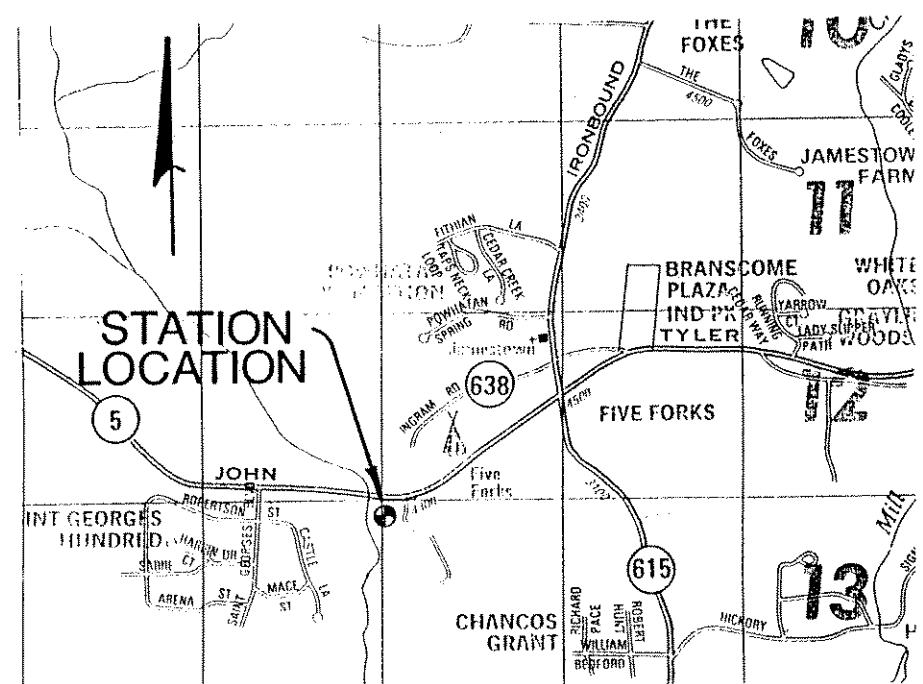
STATION NUMBER

320

FIELD BOOKS

P.S. 363, P. 48-50

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 320:

A 3 $\frac{1}{4}$ " disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 320." The disk is located approximately 44.9' southeast of the center line of the pavement of State Route 5 (John Tyler Highway), 51.1' southwest of a telephone pedestal.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 320 - REFERENCE MARK NO. 1." The disk is located 36.7' northwest of the center line of the pavement of State Route 5 (John Tyler Highway), and 6.4' northeast of utility pole #MP81.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 320 - REFERENCE MARK NO. 2." The disk is located 38.2' south of a telephone pedestal, and 16.2' west of utility pole #MP72 $\frac{1}{2}$.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 320 - REFERENCE MARK NO. 3 AZ." The disk is located on the north side of State Route 5 (John Tyler Highway), 55.5±' east of the center line extended of State Route 1438 (Saint Georges Boulevard), 11.8' northwest of the north edge of the pavement of State Route 5 (John Tyler Highway), 203.3' northeast of utility pole #IO85, and 59.4' northwest of utility pole #JO17.

STATION NAME: 320

Latitude (dms) 37 14 56.90896

Longitude (dms) 76 46 15.84623

State Plane Zone (4502) Virginia South

Scale 0.999947524

Convergence (dms) 1 02 57.593

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

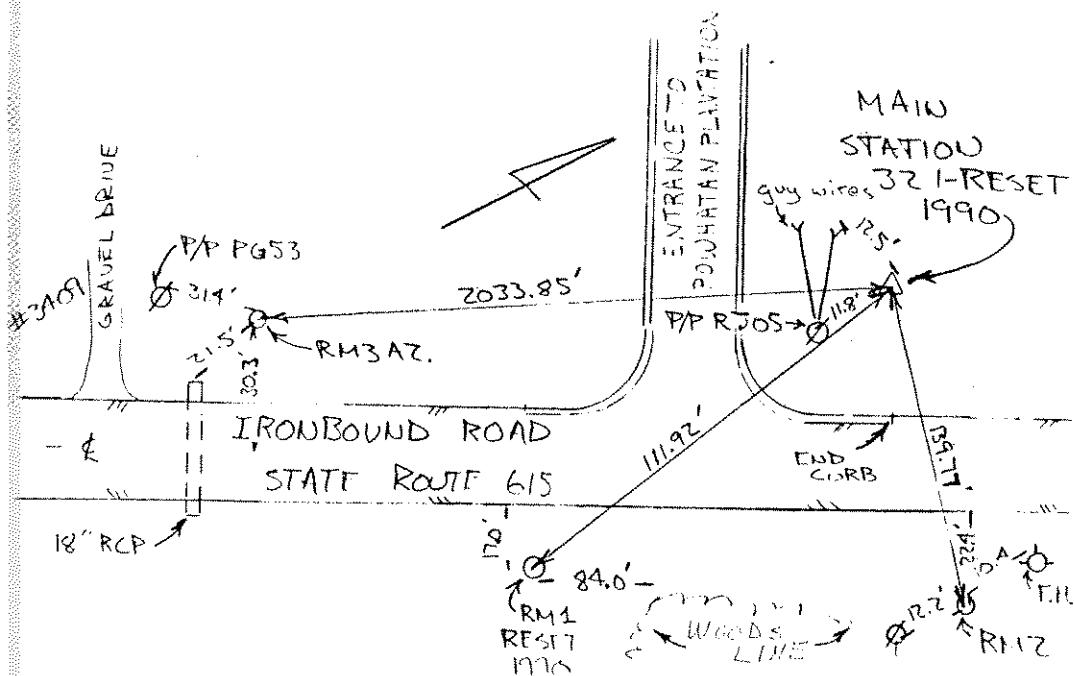
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
321 RESET 1990	Meters	3654137.665	1104597.887
	U.S. Survey Ft.	11988616.657	3624001.569
	Int'l Ft.	11988640.634	3624008.817

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
321 RM3 AZ.	Meters	3653889.196	1104029.943
	U.S. Survey Ft.	11987801.470	3622138.238
	Int'l Ft.	11987825.445	3622145.483

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S23°14'28"E	111.92
RM2	N67°22'46"E	139.77
RM3 AZ.	S23°37'44"W	2033.85

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 78.72

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 73.82

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

BERKELEY

STATION NUMBER

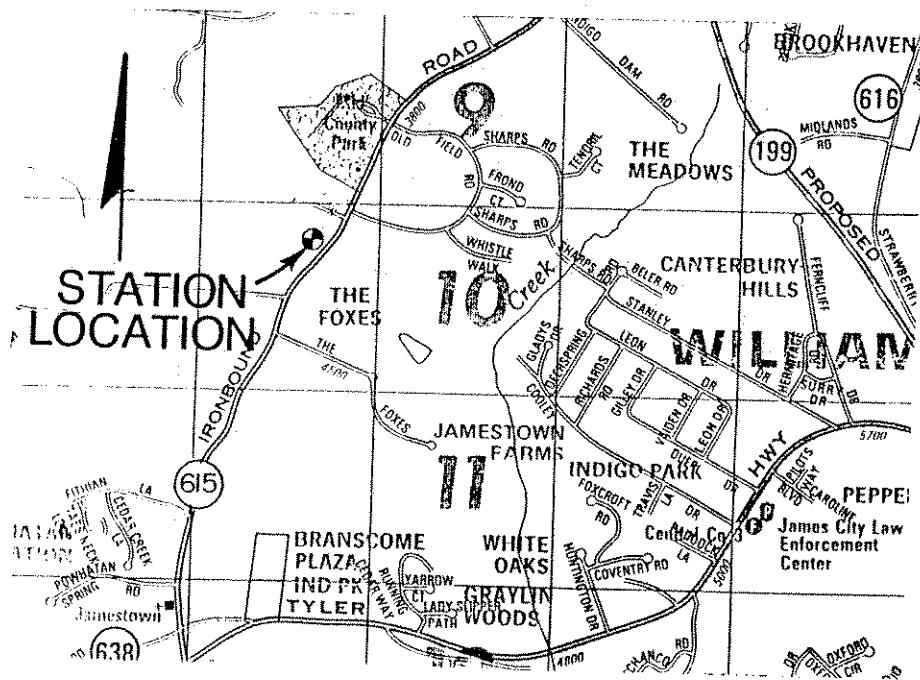
FIELD BOOKS

321 RESET 1990

P.S. 363, P. 50-52

P.S. 365, P. 29-30 & 32

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 321 RESET 1990:

A 3 1/4" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 321 RESET 1990." The disk is located on the west side of State Route 615 (Ironbound Road), north of the entrance to Powhatan Plantation, 0.25' mile south of its intersection with State Route 1465 (Old Field Road), 31.0' northwest of the end of the curb on the west side of State Route 615 (Ironbound Road), 11.8' north of utility pole #RJ05, and 12.5' northeast of the most northerly guy wire from utility pole #RJ05.

REFERENCE MARK NO. 1
RESET 1990:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 321 - REFERENCE MARK NO. 1 RESET 1990." The disk is located 17.0' east of the east edge of the pavement of State Route 615 (Ironbound Road), 84' southwest of an approximate woods line.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 321 - REFERENCE MARK NO. 2." The disk is located 22.4' southeast of the east edge of the pavement of State Route 615 (Ironbound Road), 10.4' south of a fire hydrant, 12.2' north of utility pole #RJ45.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 321 - REFERENCE MARK NO. 3 AZ." The disk is located 30.3' northwest of the center line of the pavement of State Route 615 (Ironbound Road), 31.4' northeast of utility pole #PG53, and 21.5' northwest of the west end of an 18" concrete storm drain pipe.

STATION NAME:	321 RESET 1990
Latitude (dms)	37 15 48.21344
Longitude (dms)	76 45 42.65852
State Plane Zone (4502) Virginia South	
Scale	0.999947044
Convergence (dms)	1 03 17.736

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

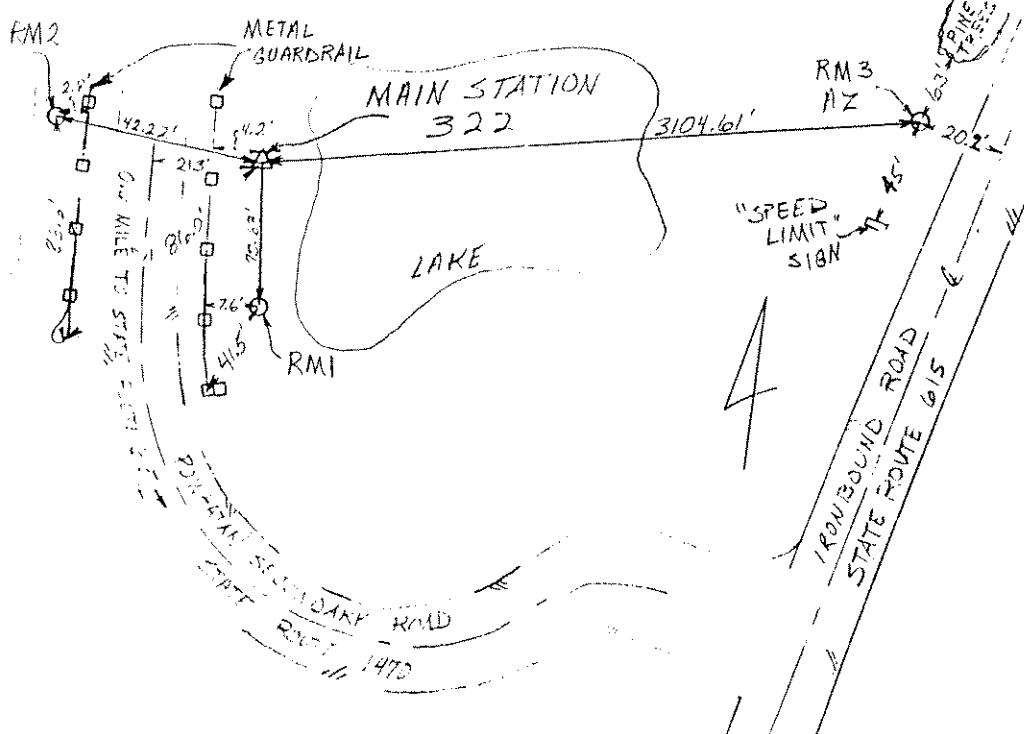
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
322	Meters	3653688.595	1105177.317
	U.S. Survey Ft.	11987143.333	3625902.579
	Int'l Ft.	11987167.308	3625909.831

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
322 RM3 AZ.	Meters	3654623.714	1105322.279
	U.S. Survey Ft.	11990211.302	3626378.176
	Int'l Ft.	11990235.282	3626385.429

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S14°44'32"W	70.68
RM2	N55°09'49"W	42.22
RM3 AZ.	N81°11'17"E	3104.61

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 65.61

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 94.88

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

BERKELEY

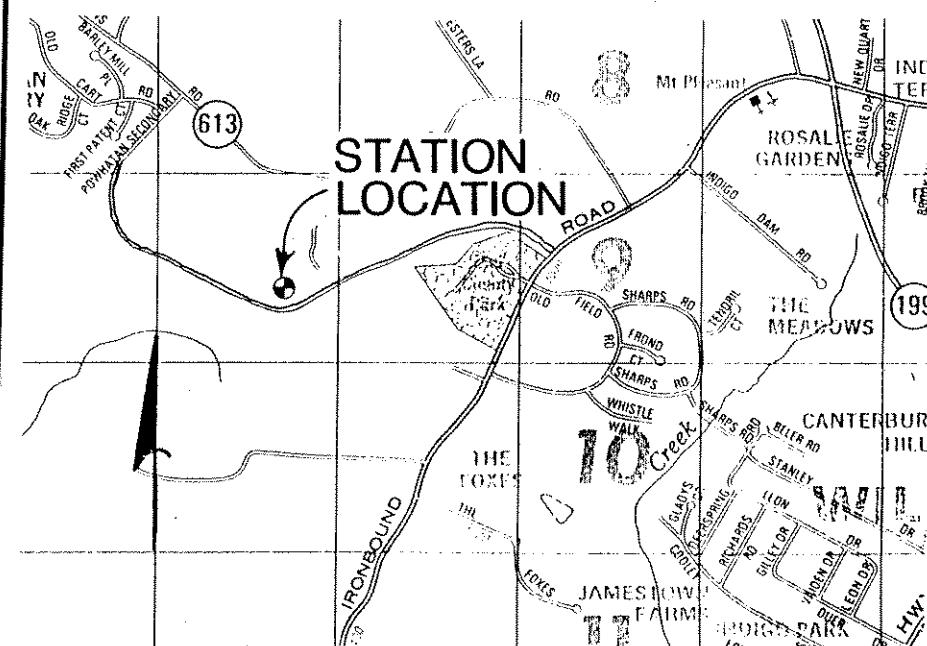
STATION NUMBER

322

FIELD BOOKS

P.S. 363, P. 53-54

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 322:

A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 322." The disk is located approximately 0.6 mile west of the intersection of State Route 615 (Ironbound Road) and State Route 1470 (Powhatan Secondary Road), 21.3' east of the center line of the pavement of State Route 1470 (Powhatan Secondary Road), 4.2' east of a metal guardrail, and 86.0' northeast of the end of a metal guardrail on the west side of State Route 1470 (Powhatan Secondary Road).

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 322 - REFERENCE MARK NO. 1." The disk is located on the east side of State Route 1470 (Powhatan Secondary Road), 7.6' east of a metal guardrail, and 41.5' north of the end of a metal guardrail.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 322 - REFERENCE MARK NO. 2." The disk is located on the west side of State Route 1470 (Powhatan Secondary Road), 2.8' west of a metal guardrail, and 86.6' north of the end of a metal guardrail.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 322 - REFERENCE MARK NO. 3 AZ." The disk is located 20.2' northwest of the center line of the pavement of State Route 615 (Ironbound Road), 45' northeast of a "speed limit" sign, and 63'± southwest of the end of a group of pine trees.

STATION NAME:	322
Latitude (dms)	37 16 06.18041
Longitude (dms)	76 46 01.52381
State Plane Zone (4502)	Virginia South
Scale	0.999946890
Convergence (dms)	1 03 06.286

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

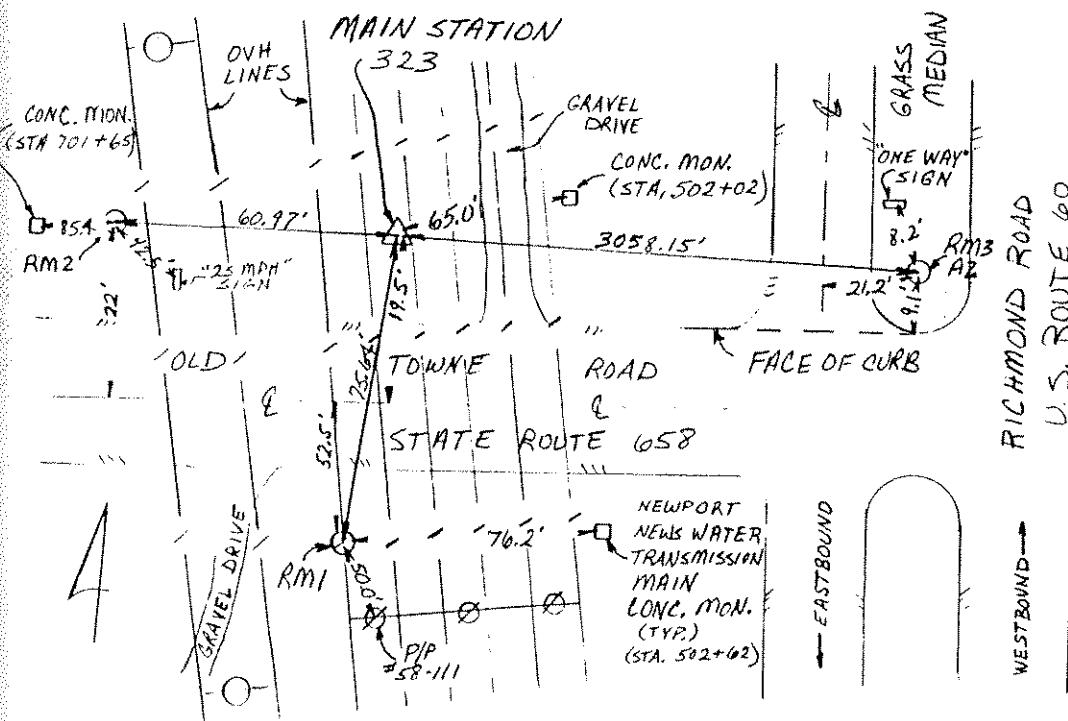
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
323	Meters	3655621.455	1110379.371
	U.S. Survey Ft.	11993484.723	3642969.652
	Int'l Ft.	11993508.710	3642976.938

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
323 RM3 AZ.	Meters	3656544.387	1110509.969
	U.S. Survey Ft.	11996512.711	3643398.123
	Int'l Ft.	11996536.704	3643405.410

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S29°11'45"E	75.64
RM2	S81°41'29"W	60.47
RM3 AZ.	N81°56'45"E	3058.15

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 112.94

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 106.43

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

BERKELEY

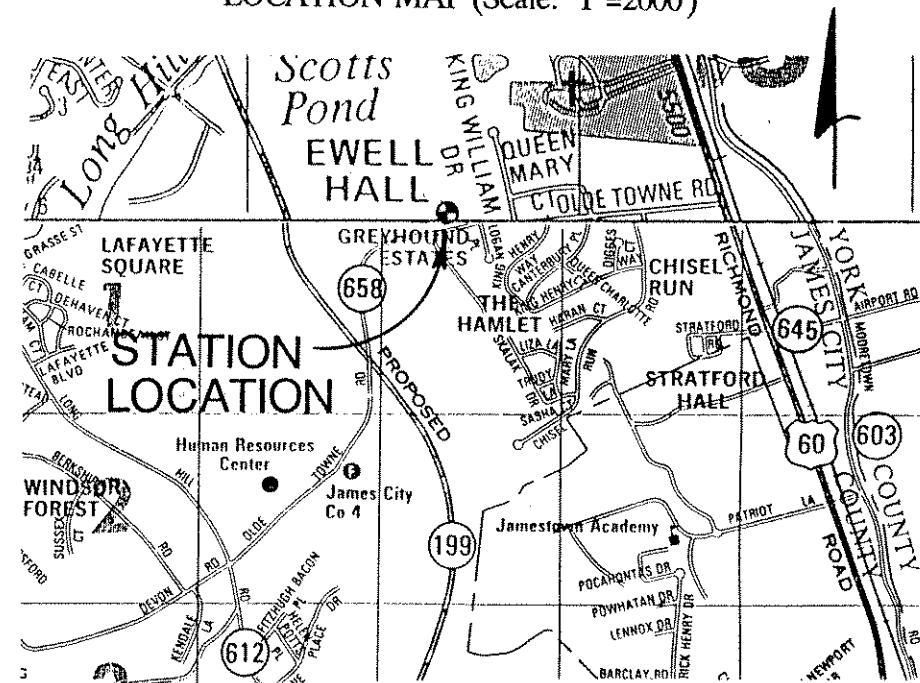
STATION NUMBER

323

FIELD BOOKS

P.S. 363, P. 62-63

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 323:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 323." The disk is located in a Virginia Power right-of-way approximately 0.1' west of State Route 1513 (King William Drive), 19.5' north of the center line of the pavement of State Route 658 (Old Towne Road), 17.8' northeast of a "25 MPH" sign, and 65.0' west of a Newport News Water Transmission Main concrete monument (Sta. 502+02).

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 323 – REFERENCE MARK NO. 1." The disk is located 52.2' south of the center line of the pavement of State Route 658 (Old Towne Road), 50.0' northwest of Vepco pole #58-111, and 76.2' southwest of a Newport News Water Transmission Main concrete monument (Sta. 502+62).

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 323 – REFERENCE MARK NO. 2." The disk is located 22' north of the center line of the pavement of State Route 658 (Old Towne Road), 85.4' east of a Newport News Water Transmission Main concrete monument (Sta. 701+65), and 42.5' northwest of a "25 MPH" sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 323 – REFERENCE MARK NO. 3 AZ." The disk is located in a grass median 21.2' east of the center line of the eastbound lanes of U.S. Route 60 (Richmond Road), 9.1' north of the north curb line extended of State Route 658 (Old Towne Road), and 8.2' southeast of a "One Way" sign.

STATION NAME: 323

Latitude (dms) 37 18 53.74312

Longitude (dms) 76 44 39.15693

State Plane Zone (4502) Virginia South

Scale 0.999945820

Convergence (dms) 1 03 56.276

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

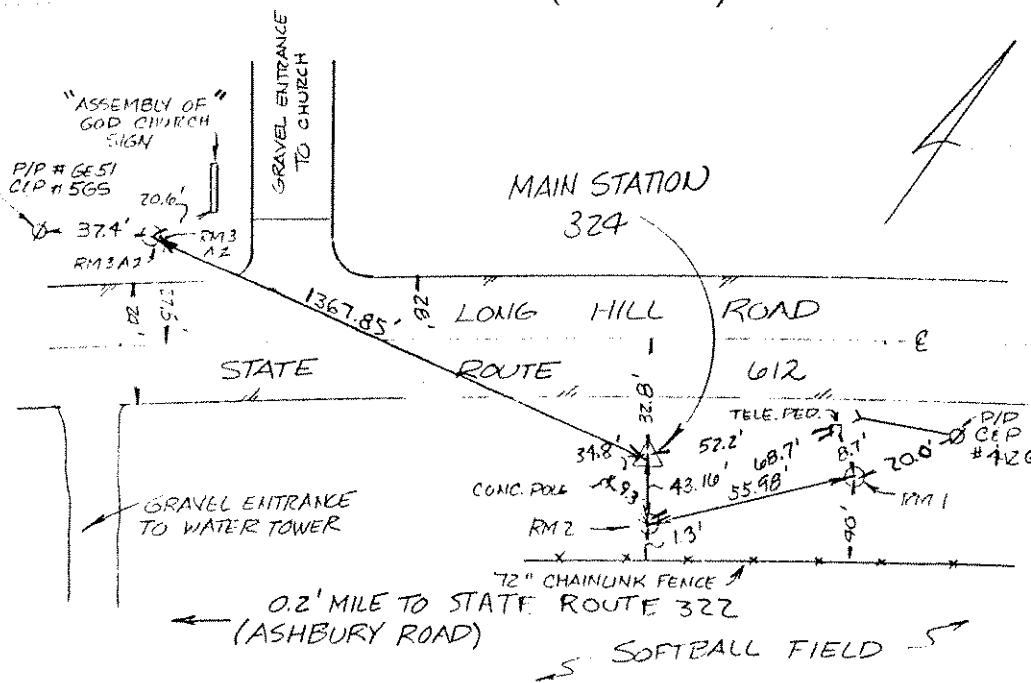
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
324	Meters	3656593.453	1108487.850
	U.S. Survey Ft.	11996673.687	3636763.887
	Int'l Ft.	11996697.680	3636771.161

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
324 RM3 AZ.	Meters	3656181.862	1108554.308
	U.S. Survey Ft.	11995323.327	3636981.927
	Int'l Ft.	11995347.318	3636989.201

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S47°54'25"E	55.98
RM2	S35°07'30"W	43.16
RM3 AZ.	N80°49'40"W	1367.85

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 94.66

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 91.31

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

BERKELEY

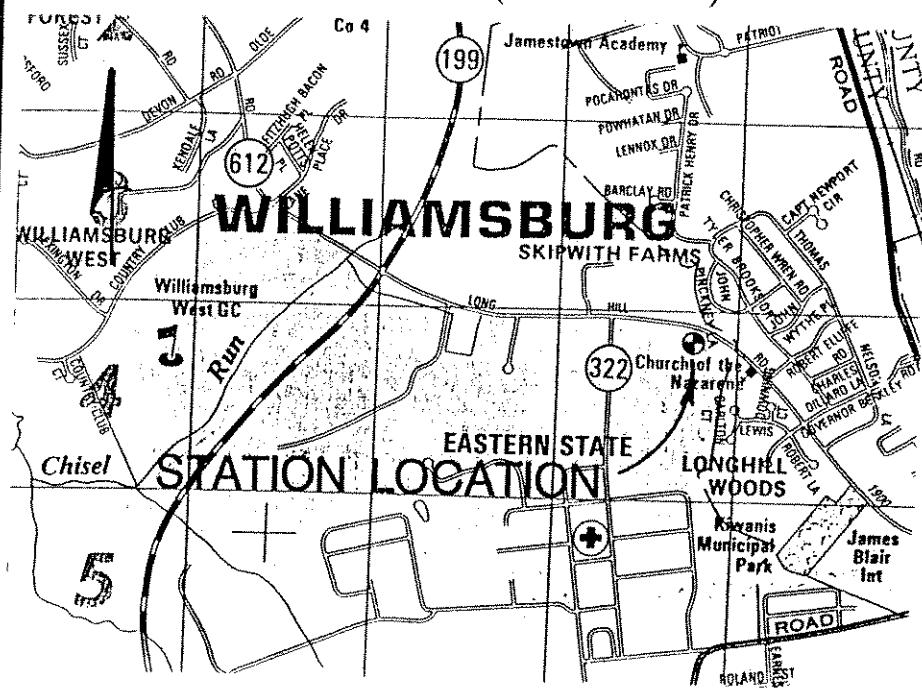
STATION NUMBER

324

FIELD BOOKS

P.S. 363, P. 60-61

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 324:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 324." The disk is located approximately 0.2 mile east of State Route 322 (Ashbury Road), 32.8' southeast of the center line of the pavement of State Route 612 (Long Hill Road), 34.8' northeast of a concrete pole, and 52.2' southwest of a telephone pedestal.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 324 – REFERENCE MARK NO. 1." The disk is located 40' northwest of a 72" chainlink fence, 20.0' southwest of a Chesapeake & Potomac Telephone Company utility pole #412G, and 8.7' southeast of a telephone pedestal.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 324 – REFERENCE MARK NO. 2." The disk is located 1.3' north of a 72" chainlink fence, 9.3' southeast of a concrete pole and 68.7' southwest of a telephone pedestal.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 324 – REFERENCE MARK NO. 3 AZ." The disk is located 27.5' northwest of the center line of the pavement of State Route 612 (Long Hill Road), 37.4' northeast of utility pole #GE51 (Chesapeake & Potomac Telephone Company #5GS), and 20.6' southwest of the "Assembly of God Church" sign.

STATION NAME: 324

Latitude (dms) 37 17 51.80651

Longitude (dms) 76 44 01.12400

State Plane Zone (4502) Virginia South

Scale 0.999946139

Convergence (dms) 1 04 19.359

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

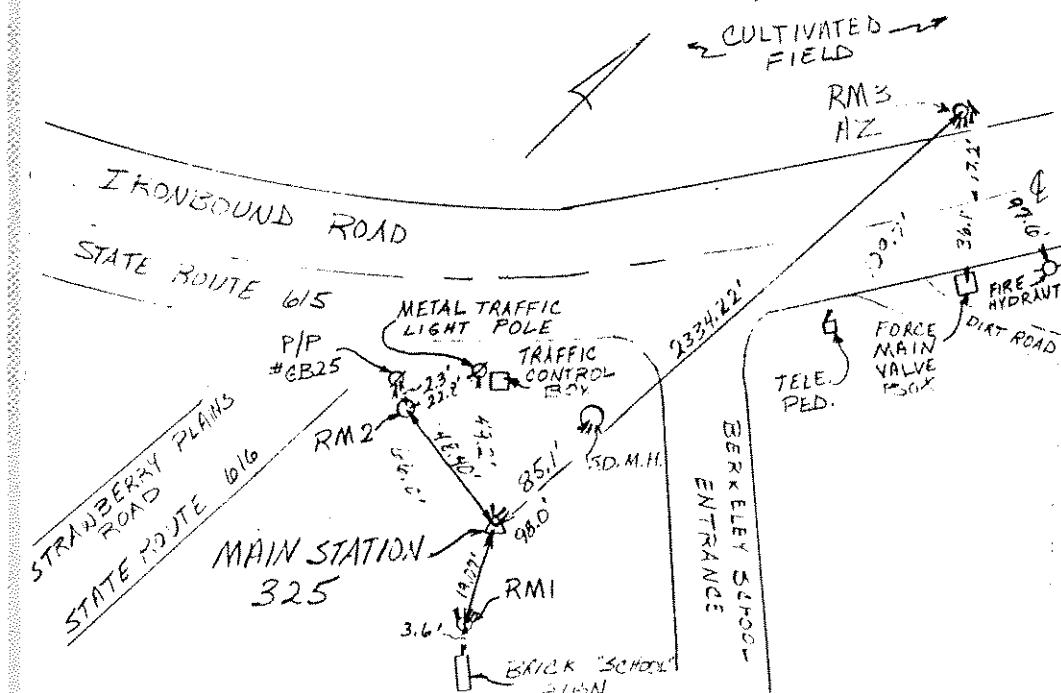
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
325	Meters	3656170.785	1105877.663
	U.S. Survey Ft.	11995286.983	3628200.301
	Int'l Ft.	11995310.974	3628207.557

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
325 RM3 AZ.	Meters	3656294.358	1106578.322
	U.S. Survey Ft.	11995692.406	3630499.046
	Int'l Ft.	11995716.398	3630506.307

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S61°04'53"E	19.07
RM2	S76°25'06"W	48.40
RM3 AZ.	N10°00'08"E	2334.22

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 110.67

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 118.77

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

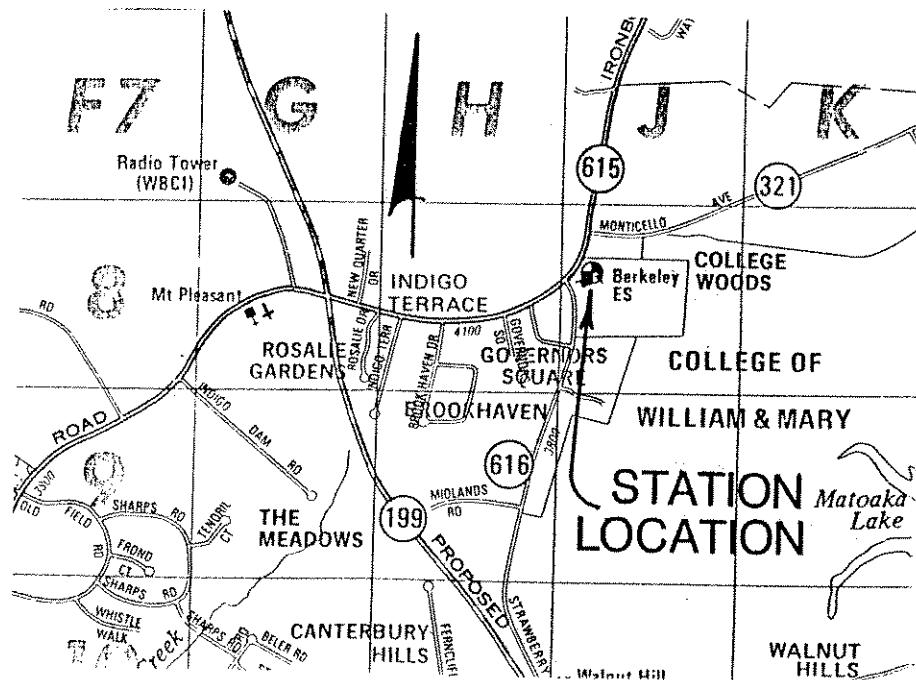
STATION NUMBER

325

FIELD BOOKS

P.S. 363, P. 55-56

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 325:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 325." The disk is located on the east side of State Route 615 (Ironbound Road) between Berkeley Elementary School entrance and State Route 616 (Strawberry Plains Road), 49.2' southeast of a metal traffic light pole, and 85.1' south of a storm drain manhole.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 325 – REFERENCE MARK NO. 1." The disk is located 98' southeast of a storm drain manhole, 3.6' northwest of a brick "school" sign, and 66.0' east of utility pole #GB25.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 325 – REFERENCE MARK NO. 2." The disk is located 2.3' east of utility pole #GB25, and 22.8' south of a metal traffic light pole.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 325 – REFERENCE MARK NO. 3 AZ." The disk is located 17.2' northwest of the center line of the pavement of State Route 615 (Ironbound Road), 36.1' northwest of a force main valve box, 109.7' north of a telephone pedestal, and 97.6' west of a fire hydrant.

STATION NAME: 325

Latitude (dms) 37 16 27.40524

Longitude (dms) 76 44 20.26054

State Plane Zone (4502) Virginia South

Scale 0.999946718

Convergence (dms) 1 04 07.745

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.

326

UNITS

Meters

U.S. Survey Ft.

Int'l Ft.

EASTING (X)

3667725.795

12033197.047

12033221.113

NORTHING (Y)

1097333.363

3600167.875

3600175.076

STA. AZIMUTH MARK

326 RM3 AZ.

UNITS

Meters

U.S. Survey Ft.

Int'l Ft.

EASTING (X)

3667851.214

12033608.523

12033632.590

NORTHING (Y)

1098541.823

3604132.631

3604139.839

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT

BEARING

DISTANCE (FEET)

RM1

S13°57'36"W

54.40

RM2

N72°57'31"W

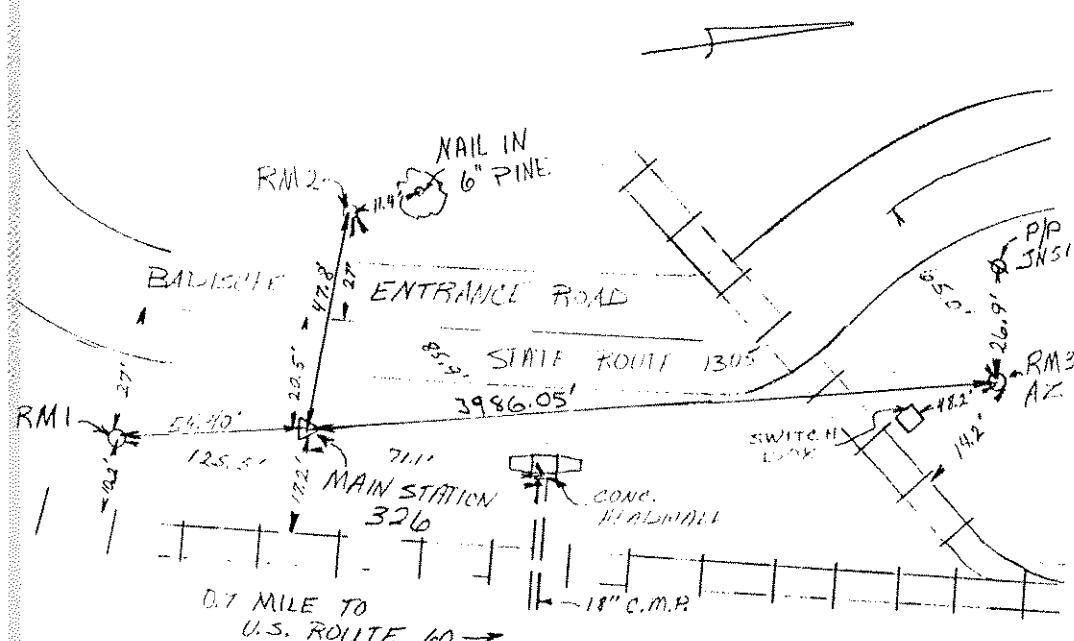
47.58

RM3 AZ.

N05°55'31"E

3986.05

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 14.64

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 62.65

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

ROBERTS

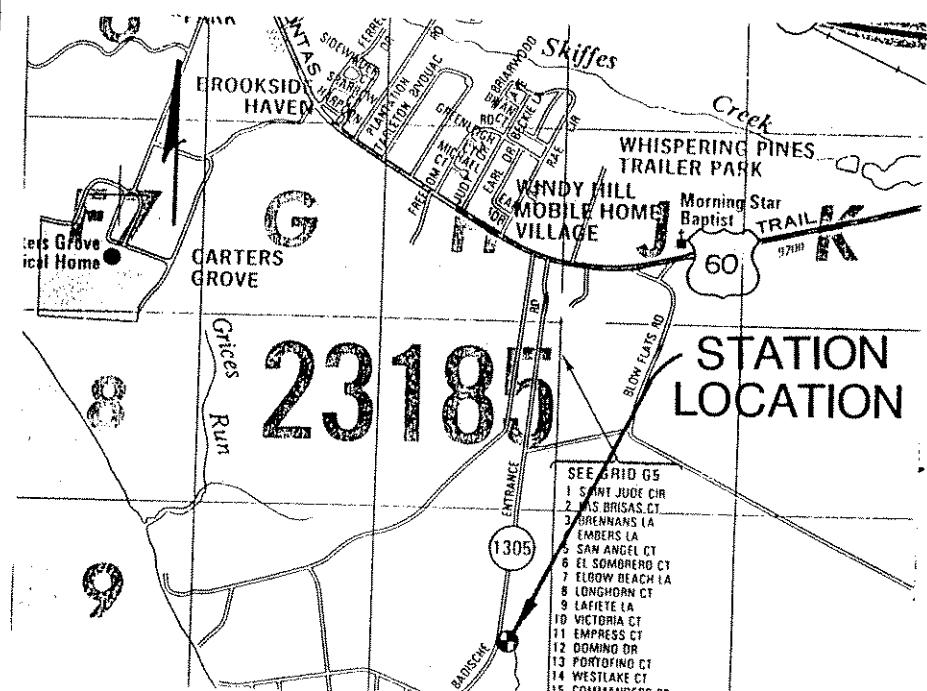
STATION NUMBER

326

FIELD BOOKS

P.S. 363, P. 2-3

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 326:

A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 326." The disk is located on the east side of State Route 1305 (Badische Entrance Road) 0.7 mile south of U.S. Route 60 (Pocahontas Trail), 20.5' east of the center line of the pavement of State Route 1305 (Badische Entrance Road), 17.2' west of the railroad tracks, 71.1' south of the center line of an 18" metal pipe at the concrete headwall.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 326 – REFERENCE MARK NO. 1." The disk is located 27' east of the center line of the pavement of State Route 1305 (Badische Entrance Road), 10.2' west of the railroad tracks, and 125.5' south of the center line of an 18" metal pipe at the concrete headwall.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 326 – REFERENCE MARK NO. 2." The disk is located 27' west of the center line of the pavement of State Route 1305 (Badische Entrance Road), 11.4' southeast of a nail in a 6" pine tree, and 85.9' southwest of the center line of a pipe at the concrete headwall.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 326 – REFERENCE MARK NO. 3 AZ." The disk is located 65' east of the center line of the pavement of State Route 1305 (Badische Entrance Road), 14.2' east of the railroad tracks, 48.2' northwest of a power box, and 26.9' northeast of utility pole #JN51.

STATION NAME:	326
Latitude (dms)	37 11 43.03864
Longitude (dms)	76 36 38.24793
State Plane Zone (4502)	Virginia South
Scale	0.999949894
Convergence (dms)	1 08 48.152

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

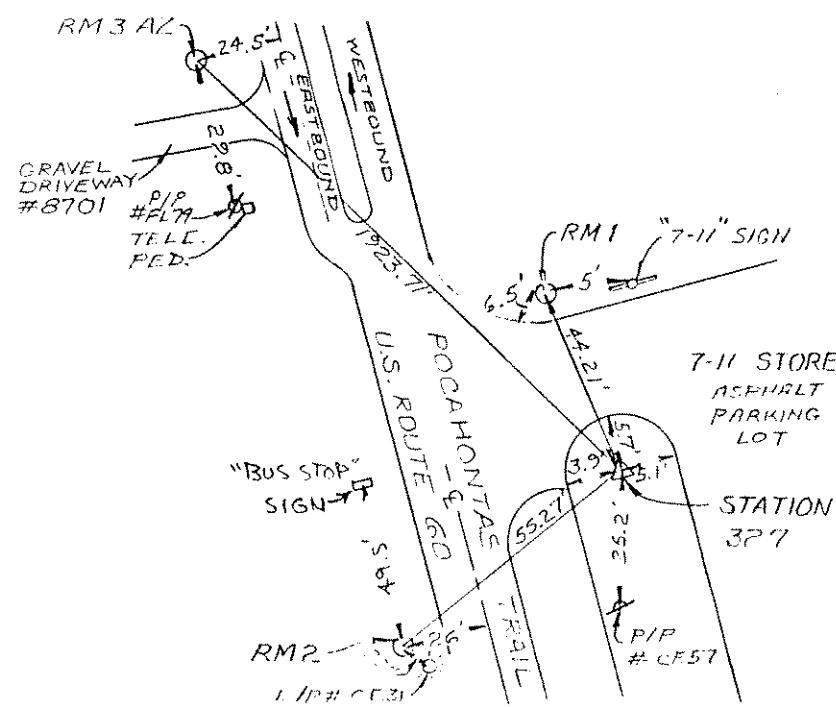
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
327	Meters	3666820.918	1099577.564
	U.S. Survey Ft.	12030228.294	3607530.726
	Int'l Ft.	12030252.355	3607537.941
327 RM3 AZ.	UNITS	EASTING (X)	NORTHING (Y)
	Meters	3666389.137	1099974.264
	U.S. Survey Ft.	12028811.694	3608832.233
	Int'l Ft.	12028835.752	3608839.450

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N35°05'52"W	44.21
RM2	S34°05'26"W	55.27
RM3 AZ.	N47°25'29"W	1923.71

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 72.10

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 63.98

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT
ROBERTS

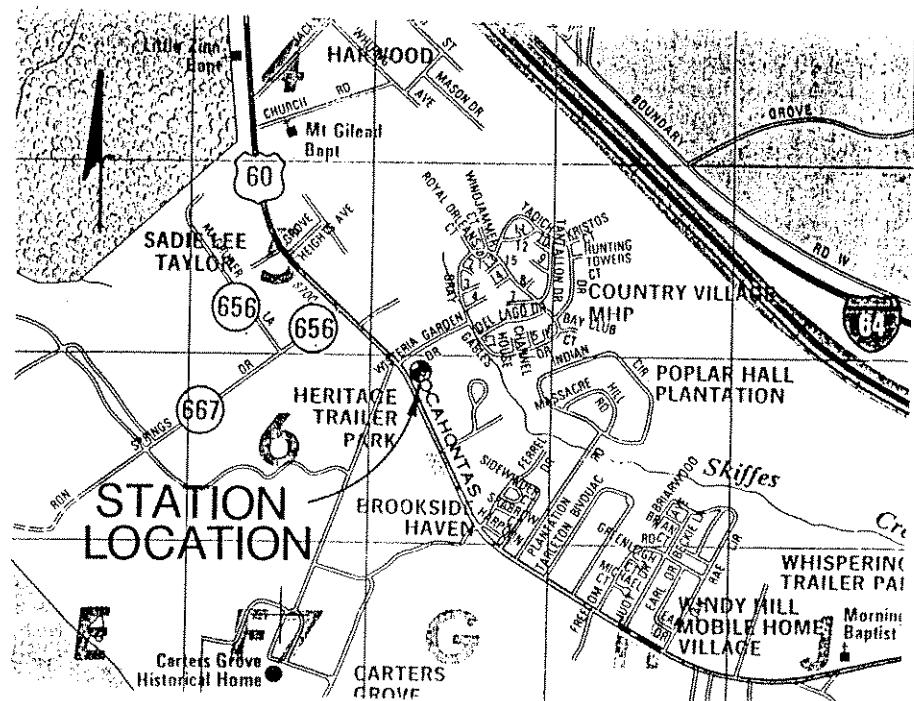
STATION NUMBER

327

FIELD BOOKS

P.S. 363, P. 4-5

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 327:

A 3½" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 327." The disk is located on the east side of U.S. Route 60 (Pocahontas Trail) approximately 120' south of Wisteria Drive (the entrance to Country Village Mobile Home Park) in the north end of a median adjacent to the 7-11 store parking lot, 25.2' north of utility pole #CE57, 3.9' northeast of the west curb of the median, 5.7' southeast of the center of the curb return, and 5.1' southwest of the east curb of the median.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 327 - REFERENCE MARK NO. 1." The disk is located on the east side of U.S. Route 60 (Pocahontas Trail), north of the 7-11 parking lot, 5' southwest of the 7-11 sign, 9.2' southeast of a utility pole, and 6.5' northeast of the curb.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 327 - REFERENCE MARK NO. 2." The disk is located 26' southwest of the center line of the pavement of U.S. Route 60 (Pocahontas Trail), 2.7' northwest of utility pole #CE31, and 49.5' southeast of a "Bus Stop" sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 327 - REFERENCE MARK NO. 3 AZ." The disk is located 24.5' southwest of the center line of the eastbound lanes of U.S. Route 60 (Pocahontas Trail) in front of residence #8701, 29.8' northwest of utility pole #FL79.

STATION NAME: 327

Latitude (dms) 37 12 56.41080

Longitude (dms) 76 37 13.12168

State Plane Zone (4502) Virginia South

Scale 0.999948894

Convergence (dms) 1 08 26.986

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

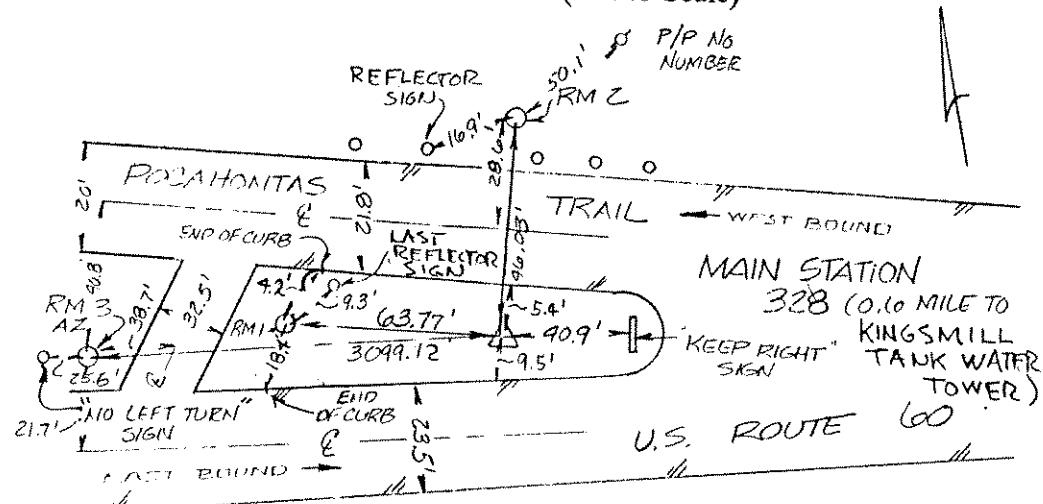
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
328	Meters	3665247.284	1101951.906
	U.S. Survey Ft.	12025065.465	3615320.545
	Int'l Ft.	12025089.516	3615327.776
STA. AZIMUTH MARK 328 RM3 AZ.	UNITS	EASTING (X)	NORTHING (Y)
	Meters	3664330.103	1102177.904
	U.S. Survey Ft.	12022056.345	3616062.005
	Int'l Ft.	12022080.389	3616069.237

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N74°53'01"W	63.77
RM2	N15°35'00"E	46.03
RM3 AZ.	N76°09'28"W	3099.12

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 88.62

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 89.80

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT
ROBERTS

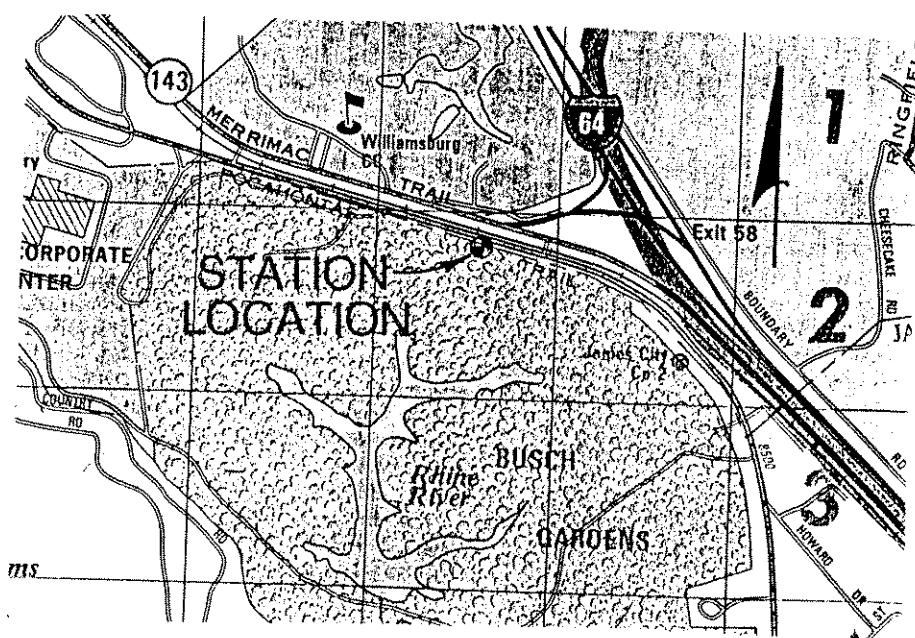
STATION NUMBER

328

FIELD BOOKS

P.S. 363, P. 18-20

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 328:

A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 328." The disk is located in the median of U.S. Route 60 (Pocahontas Trail), 0.6 mile east of a water tower, 40.9' west of a "Keep Right" sign, 5.4' south of the back of the curb of the westbound lanes of U.S. Route 60 (Pocahontas Trail), 9.5' north of the back of the curb of the eastbound lanes of U.S. Route 60 (Pocahontas Trail).

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 328 - REFERENCE MARK NO. 1." The disk is located in the median of U.S. Route 60 (Pocahontas Trail), 18.4' northwest of the end of the curb of the eastbound lanes of U.S. Route 60 (Pocahontas Trail), 4.2' southwest of the end of the curb of the west bound lanes of U.S. Route 60 (Pocahontas Trail), and 9.3' southwest of the last reflector sign.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 328 - REFERENCE MARK NO. 2." The disk is located 28.6' north of the center line of the pavement of the westbound lanes of U.S. Route 60 (Pocahontas Trail), 16.9' northeast of a reflector sign, and 50.1' southwest of a utility pole.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 328 - REFERENCE MARK NO. 3 AZ." The disk is located 21.7' north of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Pocahontas Trail), 40.8' south of the center line of the pavement of the westbound lanes of U.S. Route 60 (Pocahontas Trail), 38.7' west of the center line of the pavement of a median crossover, and 25.6' east of a "No Left Turn" sign.

STATION NAME:	328
Latitude (dms)	37 14 14.42959
Longitude (dms)	76 38 15.03758
State Plane Zone (4502) Virginia South	
Scale	0.999947968
Convergence (dms)	1 07 49.408

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

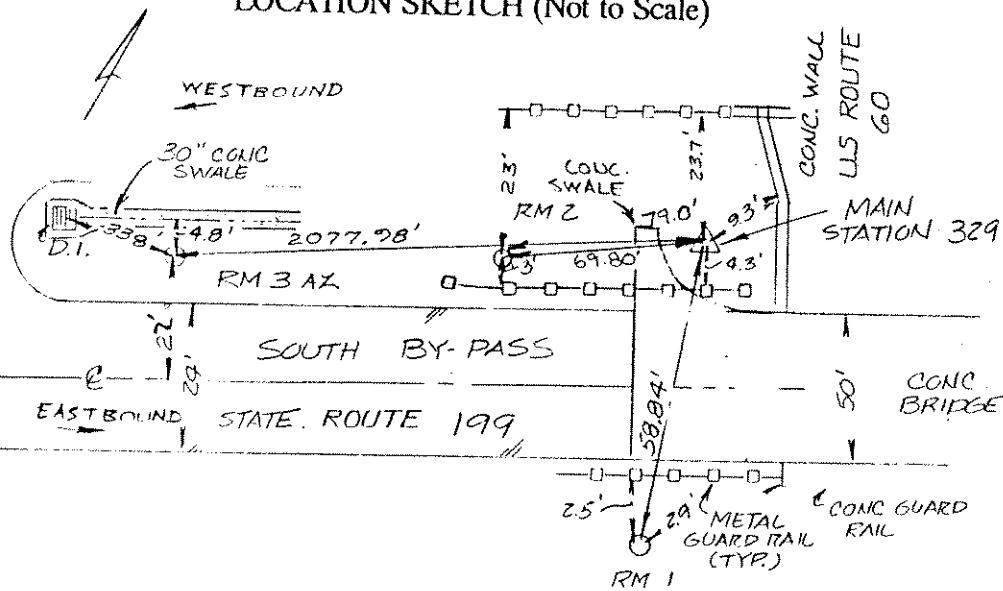
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
329	Meters	3662977.216	1103455.258
	U.S. Survey Ft.	12017617.750	3620252.794
	Int'l Ft.	12017641.785	3620260.034
STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
329 RM3 AZ.	Meters	3662429.206	1103137.706
	U.S. Survey Ft.	12015819.818	3619210.956
	Int'l Ft.	12015843.850	3619218.194

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S41°55'18"E	58.84
RM2	S51°28'06"W	69.80
RM3 AZ.	S59°54'33"W	2077.98

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 118.14

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 81.75

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

ROBERTS

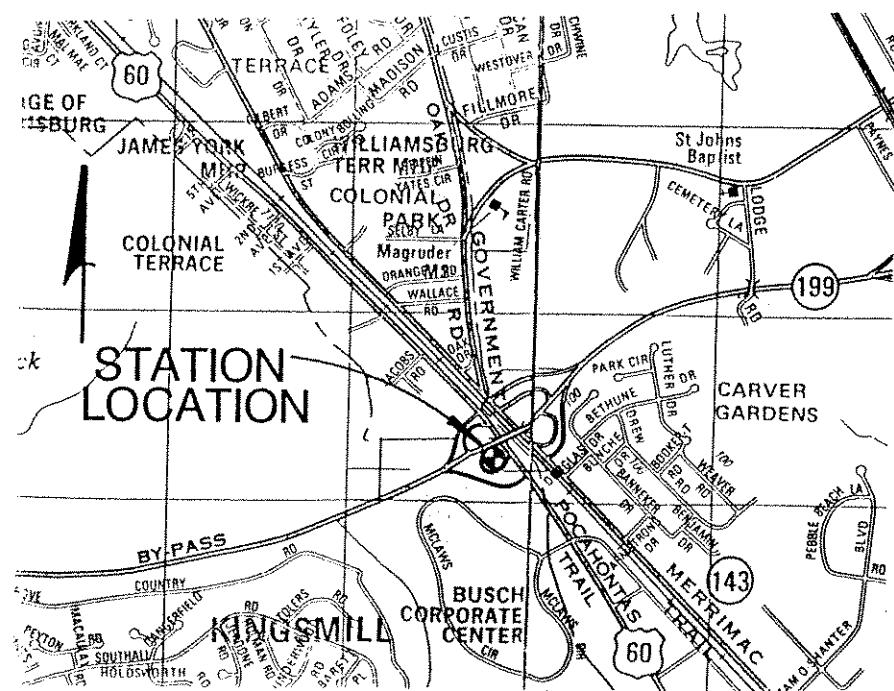
STATION NUMBER

329

FIELD BOOKS

P.S. 363, P. 9-10

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 329:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 329." The disk is located north of the eastbound lanes of State Route 199 (South By-Pass), west of a bridge over U.S. Route 60 (Pocahontas Trail), 4.3' northwest of a metal guardrail, 9.3' southwest of an angle point in a concrete wall, 23.7' southeast of a metal guardrail on the south side of the westbound lanes of State Route 199 (South By-Pass).

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 329 - REFERENCE MARK NO. 1." The disk is located on the south side of the eastbound lanes of State Route 199 (South By-Pass), 2.5' southeast of a metal guardrail, 2.9' southwest of a concrete guardrail on the bridge over U.S. Route 60 (Pocahontas Trail).

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 329 - REFERENCE MARK NO. 2." The disk is located 3' northwest of a metal guardrail on the north side of the eastbound lanes of State Route 199 (South By-Pass), 23' southeast of a metal guardrail on the south side of the westbound lanes of State Route 199 (South By-Pass), and 79.0' from an angle point in a concrete wall.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 329 - REFERENCE MARK NO. 3 AZ." The disk is located 22' northwest of the center line of the pavement of the eastbound lanes of State Route 199 (South By-Pass), 4.8' southeast of a 30" concrete swale in the median, and 33.8' west of a drop inlet.

STATION NAME:

329

Latitude (dms)

37 15 04.63086

Longitude (dms)

76 39 45.93594

State Plane Zone (4502) Virginia South

0.999947448

Scale

1 06 54.239

Convergence (dms)

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

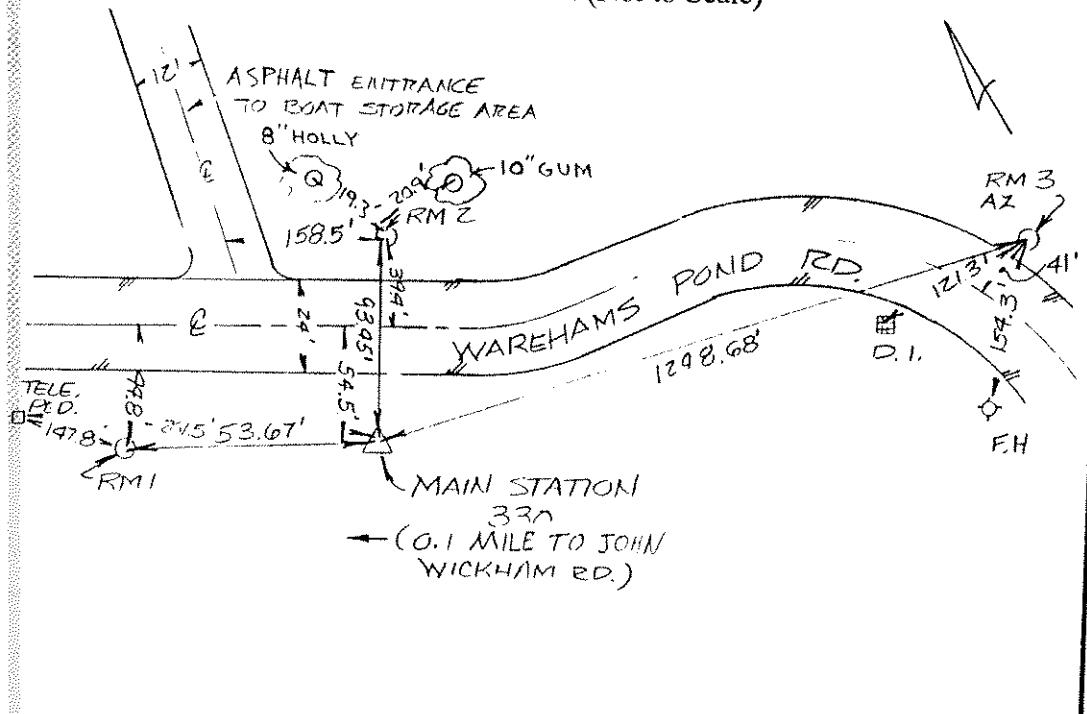
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
330	Meters	3663692.388	1101315.159
	U.S. Survey Ft.	12019964.111	3613231.485
	Int'l Ft.	12019988.151	3613238.711

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
330 RM3 AZ.	Meters	3664065.140	1101238.274
	U.S. Survey Ft.	12021187.047	3612979.239
	Int'l Ft.	12021211.090	3612986.465

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N54°38'03"W	53.67
RM2	N26°19'05"E	93.45
RM3 AZ.	S78°20'44"E	1248.68

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 95.65

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 93.35

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT
ROBERTS

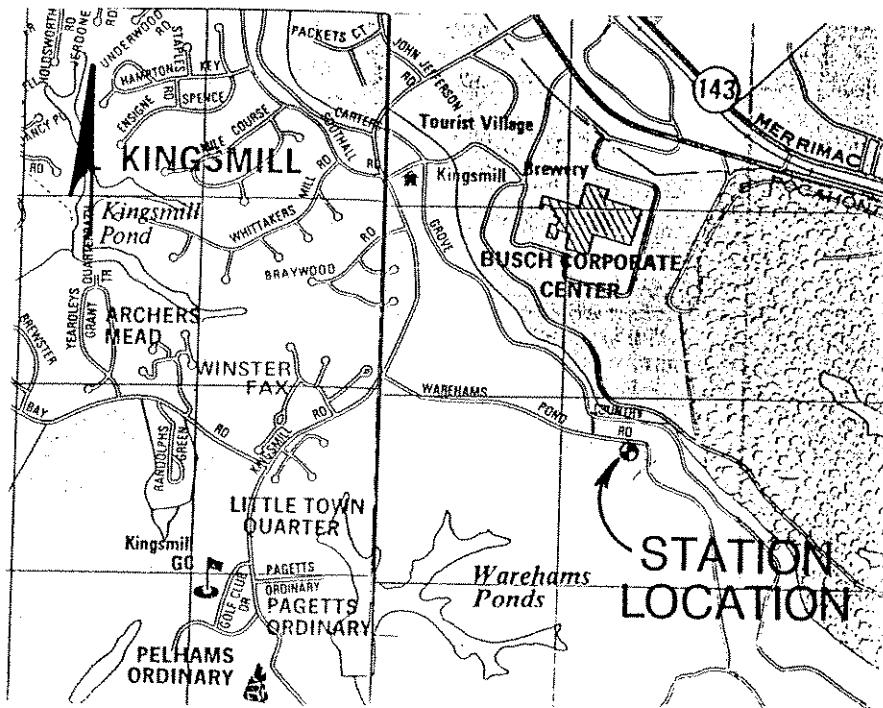
STATION NUMBER

330

FIELD BOOKS

P.S. 363, P. 6-7

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 330:

A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 330." The disk is located 54.5' southwest of the center line of Warehams Pond Road, 0.1' mile east of John Wickham Road on top of a berm, and 201.5' southeast of a telephone pedestal.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 330 – REFERENCE MARK NO. 1." The disk is located 44.8' southwest of the center line of the pavement of Warehams Pond Road, and 147.8' southeast of a telephone pedestal.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 330 – REFERENCE MARK NO. 2." The disk is located 39.4' northeast of the center line of the pavement of Warehams Pond Road, 158.5' east of the center line of an asphalt entrance to a boat storage area, 19.3' southeast of an 8" holly, and 20.9' west of a 10" gum.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 330 – REFERENCE MARK NO. 3 AZ." The disk is located 41' northeast of the center line of the pavement of Warehams Pond Road on top of a berm, 154.3' northeast of a fire hydrant, and 121.3' east of a drop inlet.

STATION NAME:	330
Latitude (dms)	37 13 54.76826
Longitude (dms)	76 39 18.61668
State Plane Zone (4502)	Virginia South
Scale	0.999948188
Convergence (dms)	1 07 10.820

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

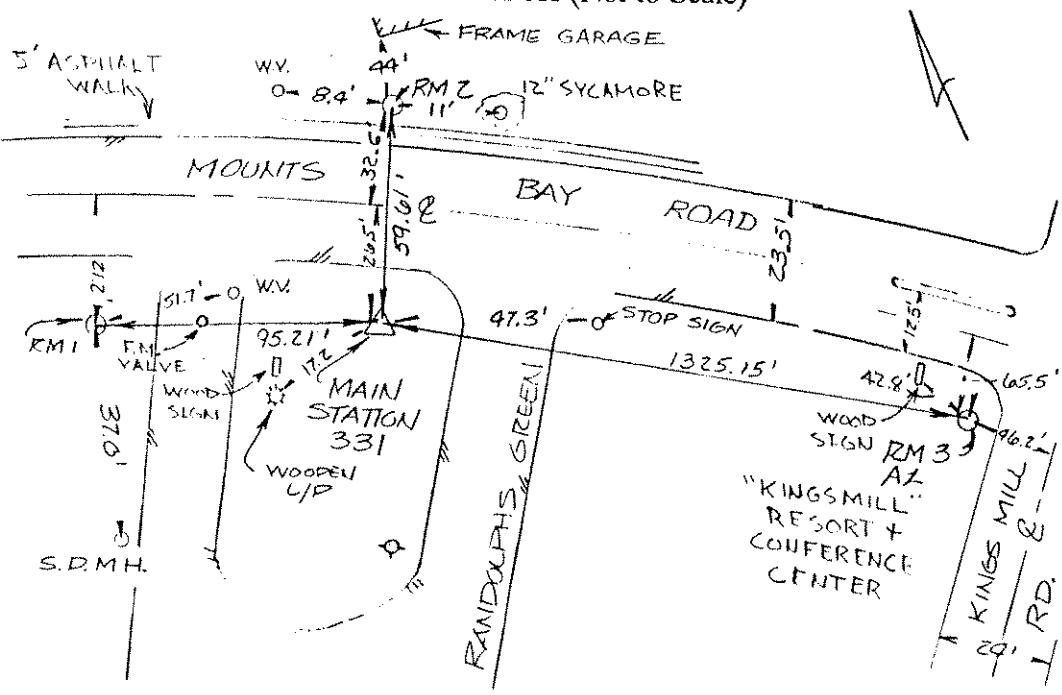
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
331	Meters	3662454.867	1101341.310
	U.S. Survey Ft.	12015904.011	3613317.282
	Int'l Ft.	12015928.043	3613324.509

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
331 RM3 AZ.	Meters	3662796.552	1101125.921
	U.S. Survey Ft.	12017025.022	3612610.627
	Int'l Ft.	12017049.056	3612617.853

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N73°08'46"W	95.21
RM2	N09°38'21"E	59.61
RM3 AZ.	S57°46'26"E	1325.15

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 64.84

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 62.18

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT
ROBERTS

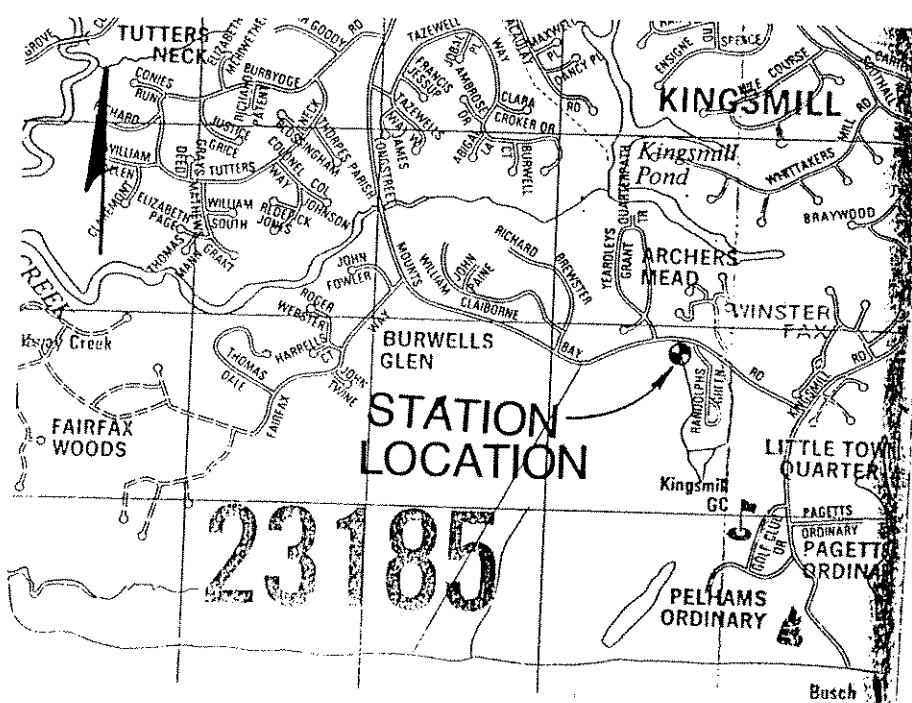
STATION NUMBER

331

FIELD BOOKS

P.S. 363, P. 7-9

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 331:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 331." The disk is located 26.5' southwest of the center line of the pavement of Mounts Bay Road, 47.3' northwest of a "Stop" sign at Randolphs Green, and 17.2' east of a wooden light pole.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 331 – REFERENCE MARK NO. 1." The disk is located 21.2' southwest of the center line of the pavement of Mounts Bay Road, 37.0' north of a storm drain manhole, and 51.7' west of a water valve.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 331 – REFERENCE MARK NO. 2." The disk is located 32.6' northeast of the center line of the pavement of Mounts Bay Road, 8.4' southeast of a water valve, 44' southwest of the southwest corner of a frame garage, and 11' northwest of a 12" sycamore.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 331 – REFERENCE MARK NO. 3 AZ." The disk is located 65.5' southwest of the center line of the southbound lanes of Mounts Bay Road, 46.2' northwest of the center line of Kingsmill Road, and 42.8' south of a wood sign for Kingsmill Resort and Conference Center.

STATION NAME:	331
Latitude (dms)	37 13 56.39791
Longitude (dms)	76 40 08.79259
State Plane Zone (4502)	Virginia South
Scale	0.999948170
Convergence (dms)	1 06 40.367

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

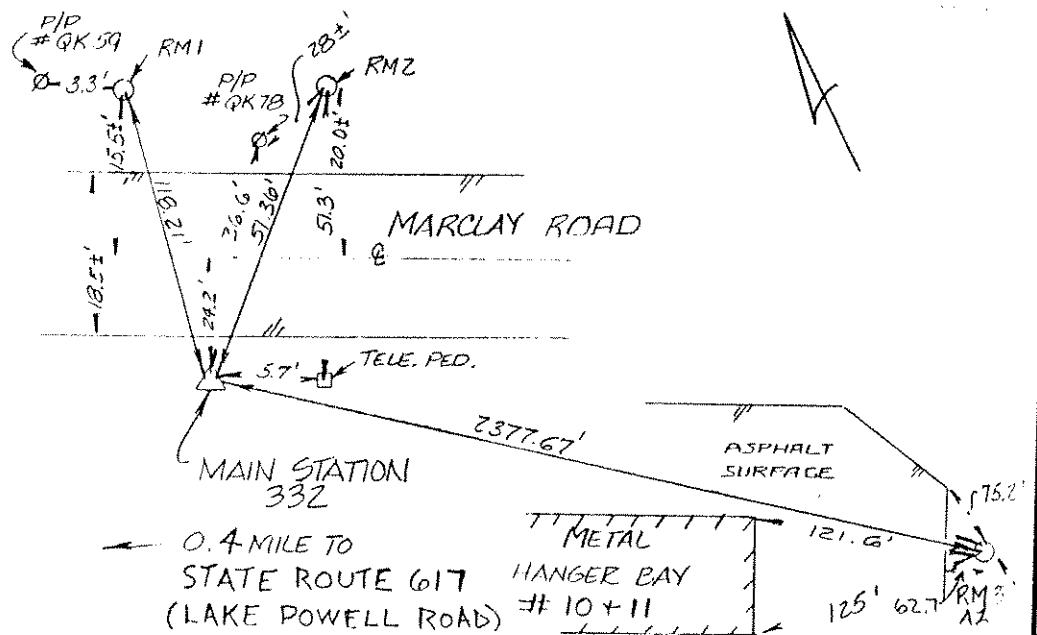
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
332	Meters	3657823.486	1102549.935
	U.S. Survey Ft.	12000709.219	3617282.579
	Int'l Ft.	12000733.221	3617289.814

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
332 RM3 AZ.	Meters	3658399.172	1102109.711
	U.S. Survey Ft.	12002597.949	3615838.277
	Int'l Ft.	12002621.955	3615845.508

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N41°28'31"W	118.21
RM2	N58°12'38"E	51.36
RM3 AZ.	S52°35'42"E	2377.67

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 71.71

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 41.81

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

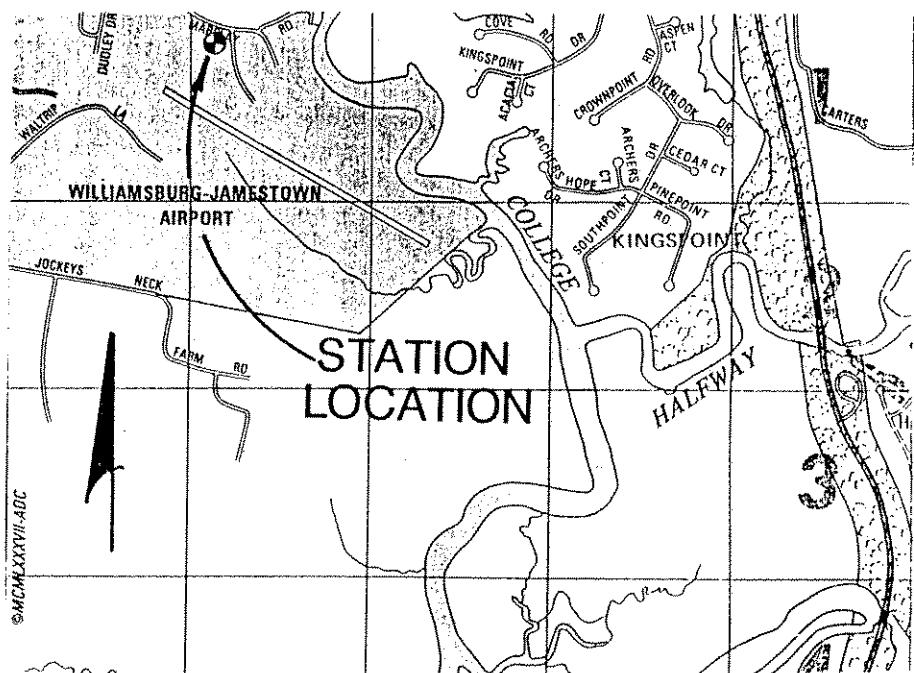
STATION NUMBER

332

FIELD BOOKS

P.S. 363, P. 30-32

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 332:

A 3 $\frac{1}{4}$ " disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 332." The disk is located approximately 0.4 mile east of the intersection of State Route 617 (Lake Powell Road) and Marclay Road, 24.2' southwest of the center line of the pavement of Marclay Road, 5.7' west of a telephone pedestal, and 36.6' southwest of utility pole #QK78.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 332 – REFERENCE MARK NO. 1." The disk is located 15.5' \pm northeast of the center line of the pavement of Marclay Road, and 3.3' southeast of utility pole #QK59.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 7" below the ground surface, stamped "STATION NO. 332 – REFERENCE MARK NO. 2." The disk is located 20.0' \pm northeast of the center line of the pavement of Marclay Road, and 28' \pm northeast of utility pole #QK78.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 332 – REFERENCE MARK NO. 3 AZ." The disk is located 62.7' east of the edge of the pavement, 121.6' southeast of the northeast corner of the metal hangar bay #10 & #11, 125' northeast of the southeast corner of metal hangar bay #10 & #11, and 75.2' south of the corner of the asphalt pavement.

STATION NAME: 332

Latitude (dms) 37 14 38.47004

Longitude (dms) 76 43 15.73045

State Plane Zone (4502) Virginia South

Scale 0.999947712

Convergence (dms) 1 04 46.910

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

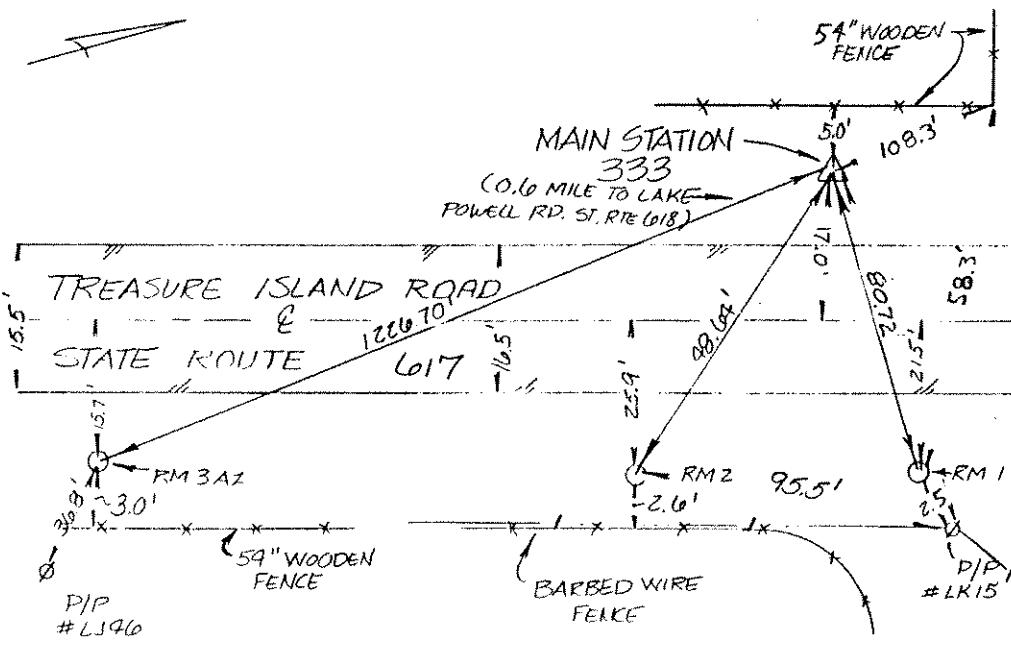
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
333	Meters	3656936.776	1100455.386
	U.S. Survey Ft.	11997800.072	3610410.712
	Int'l Ft.	11997824.067	3610417.933

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
333 RM3 AZ.	Meters	3656981.734	1100084.200
	U.S. Survey Ft.	11997947.573	3609192.913
	Int'l Ft.	11997971.569	3609200.132

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N22°48'50"E	80.72
RM2	S66°54'02"E	48.64
RM3 AZ.	S06°54'22"E	1226.70

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 28.29

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 24.86

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

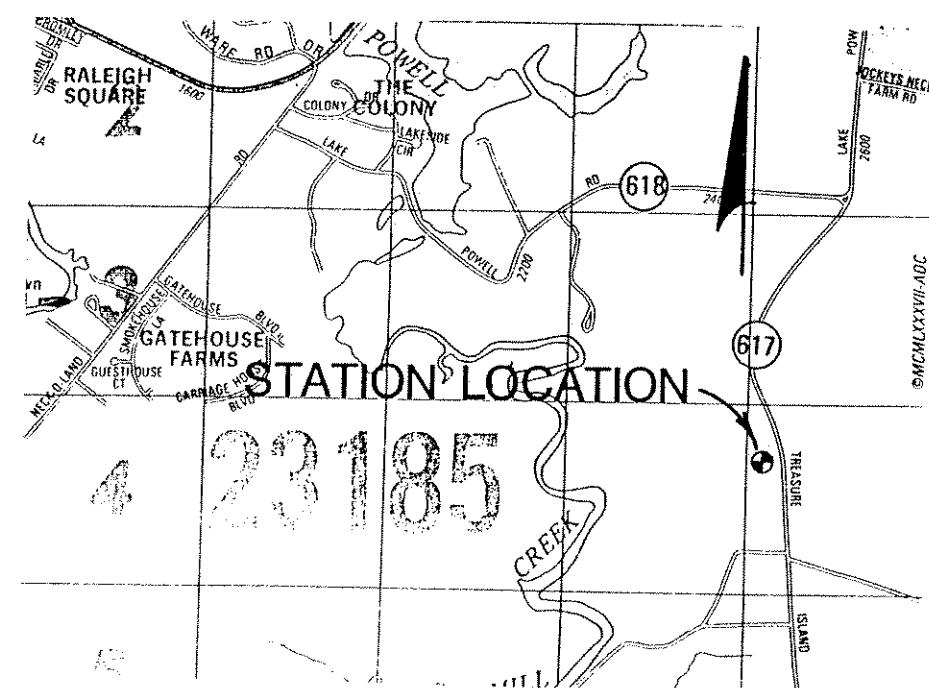
STATION NUMBER

333

FIELD BOOKS

P.S. 363, P. 32-34

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 333:

A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 333." The disk is located approximately 0.6 mile south of State Route 618 (Lake Powell Road), 17.0' west of the center line of the pavement of State Route 617 (Treasure Island Road), 5.0' east of a 54" wooden fence, and 108.3' south of the corner of the 54" wooden fence.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 333 – REFERENCE MARK NO. 1." The disk is located 21.5' east of the center line of the pavement of State Route 617 (Treasure Island Road), 2.5' west of utility pole #LK15, and 58.3' southeast of the corner of a 54" wooden fence.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 333 – REFERENCE MARK NO. 2." The disk is located 25.9' east of the center line of the pavement of State Route 617 (Treasure Island Road), 2.6' west of a barbed wire fence, and 95.5' southwest of utility pole #LK15.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 333 – REFERENCE MARK NO. 3 AZ." The disk is located 15.7' east of the center line of the pavement of State Route 617 (Treasure Island Road), 3.0' west of a 54" wooden fence, and 36.8' northwest of utility pole #LJ46.

STATION NAME: 333

Latitude (dms) 37 13 31.07661

Longitude (dms) 76 43 53.29560

State Plane Zone (4502) Virginia South

Scale 0.999948465

Convergence (dms) 1 04 24.111

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.

334

UNITS EASTING (X) NORTHING (Y)

Meters 3654792.063 1100865.171

U.S. Survey Ft. 11990763.625 3611755.149

Int'l Ft. 11990787.607 3611762.372

STA. AZIMUTH MARK

334 RM3 AZ.

UNITS EASTING (X) NORTHING (Y)

Meters 3654294.193 1100176.531

U.S. Survey Ft. 11989130.197 3609495.834

Int'l Ft. 11989154.175 3609503.053

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT

BEARING

DISTANCE (FEET)

RM1

N31°11'48"E

53.75

RM2

S53°49'21"E

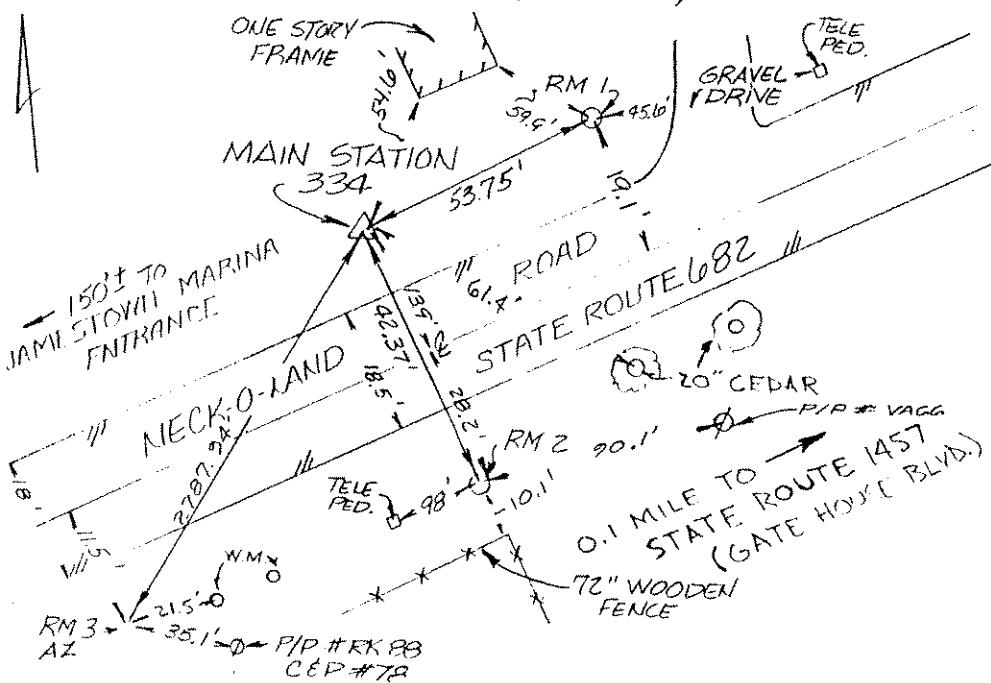
42.37

RM3 AZ.

S35°51'58"W

2787.94

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 9.76

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 14.59

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

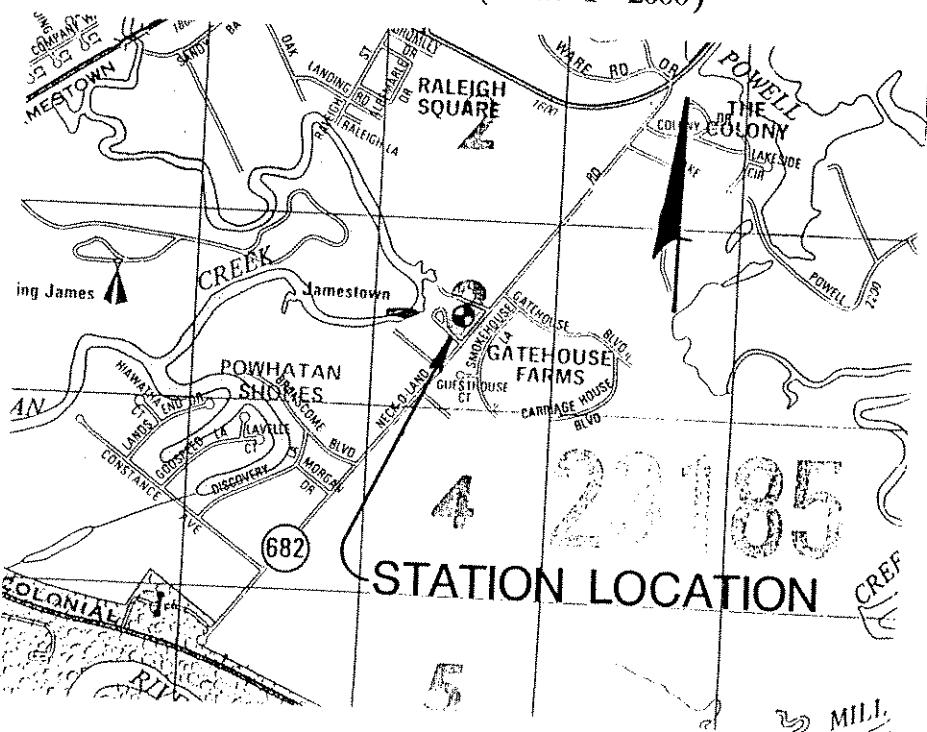
STATION NUMBER

334

FIELD BOOKS

P.S. 363, P. 26-28

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 334:

A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 334." The disk is located approximately 150' northeast of the entrance to Jamestown Marina, 0.1 mile west of State Route 1457 (Gate House Road), 13.9' northwest of the center line of the pavement of State Route 682 (Neck-O-Land Road), 54.6' southwest of the southwest corner of a one-story frame house, and 61.4' northwest of a 20" cedar.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 334 - REFERENCE MARK NO. 1." The disk is located 19.1' northwest of the center line of the pavement of State Route 682 (Neck-O-Land Road), 45.6' west of a telephone pedestal, and 59.9' southeast of the southeast corner of a one-story frame house.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 334 - REFERENCE MARK NO. 2." The disk is located 28.2' southeast of the center line of the pavement of State Route 682 (Neck-O-Land Road), 10.1' northwest of the corner of a 72" wooden fence, 90.1' west of utility pole #VA66, and 98' northeast of a telephone pedestal.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 334 - REFERENCE MARK NO. 3 AZ." The disk is located 11.5' southeast of the center line of the pavement of State Route 682 (Neck-O-Land Road), 21.5' west of a water meter, 35.1' northwest of utility pole #RK88 (Chesapeake & Potomac Telephone Company #78).

STATION NAME:	334
Latitude (dms)	37 13 45.66191
Longitude (dms)	76 45 19.97649
State Plane Zone (4502)	Virginia South
Scale	0.999948293
Convergence (dms)	1 03 31.502

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.

335

UNITS

Meters	EASTING (X)	NORTHING (Y)
3659092.341		1102988.819
U.S. Survey Ft.	12004872.122	3618722.484
Int'l Ft.	12004896.132	3618729.721

STA. AZIMUTH MARK

335 RM3 AZ.

UNITS

Meters	EASTING (X)	NORTHING (Y)
3657530.642		1103168.523
U.S. Survey Ft.	11999748.447	3619312.063
Int'l Ft.	11999772.447	3619319.302

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT

BEARING

RM1

N02°22'40"E

DISTANCE (FEET)

40.27

RM2

N89°08'42"E

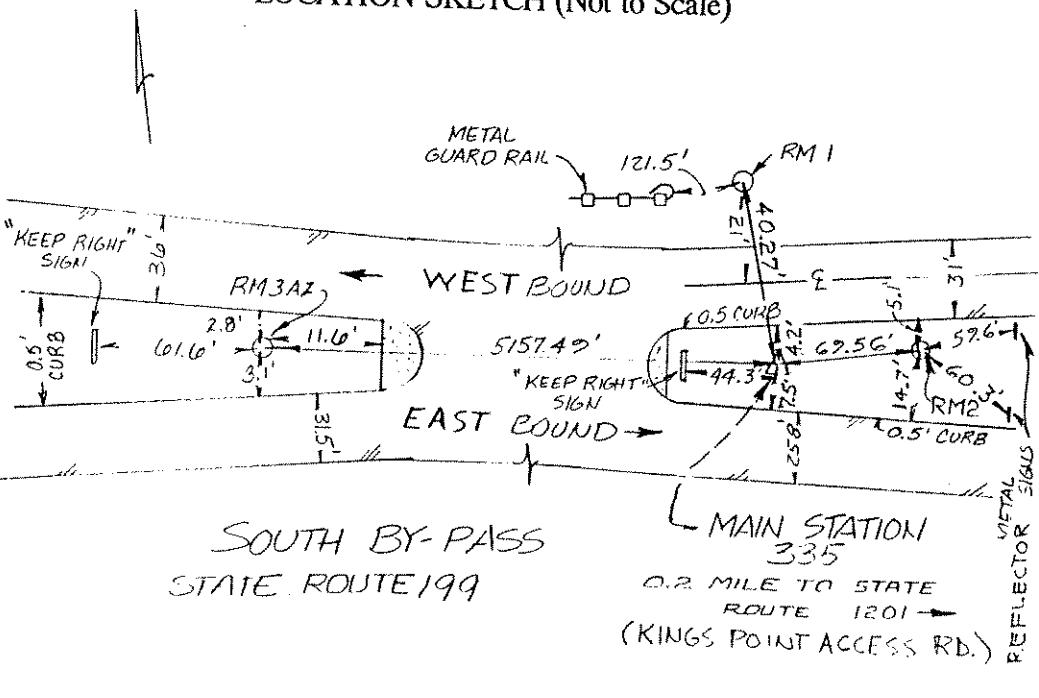
69.56

RM3 AZ.

N83°26'09"W

5157.49

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 43.62

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 49.32

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

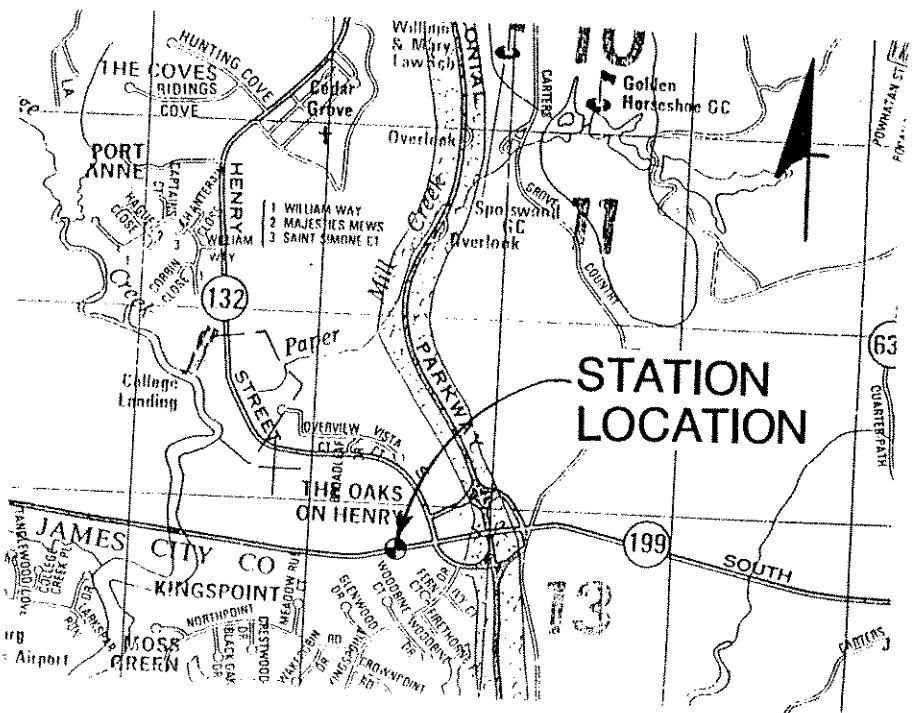
STATION NUMBER

335

FIELD BOOKS

P.S. 363, P. 28-30

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 335:

A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 335." The disk is located approximately 0.2 mile west of the Colonial Parkway in the median of State Route 199 (South By-Pass), 4.2' south of the curb of the westbound lanes of State Route 199 (South By-Pass), 7.5' north of the curb of the eastbound lanes of State Route 199 (South By-Pass), and 44.3' east of a "Keep Right" sign.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 335 - REFERENCE MARK NO. 1." The disk is located 21' north of the center line of the pavement of the westbound lanes of State Route 199 (South By-Pass), and 121.5' east of the end of a metal guardrail.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 335 - REFERENCE MARK NO. 2." The disk is located in the median of State Route 199 (South By-Pass), 5.1' south of the curb of the westbound lanes of State Route 199 (South By-Pass), 14.7' north of the curb of the eastbound lanes of State Route 199 (South By-Pass), 59.6' southwest of a metal reflector sign, and 60.3' northwest of another metal reflector sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 335 - REFERENCE MARK NO. 3 AZ." The disk is located in the median of State Route 199 (South By-Pass), 11.6' east of the back of the concrete median, 2.8' south of the curb of the westbound lanes of State Route 199 (South By-Pass), 3.1' north of the back of the curb of the eastbound lanes of State Route 199 (South By-Pass), and 61.6' east of a "Keep Right" sign.

STATION NAME:	335
Latitude (dms)	37 14 51.92585
Longitude (dms)	76 42 23.91602
State Plane Zone (4502) Virginia South	
Scale	0.999947574
Convergence (dms)	1 05 18.357

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

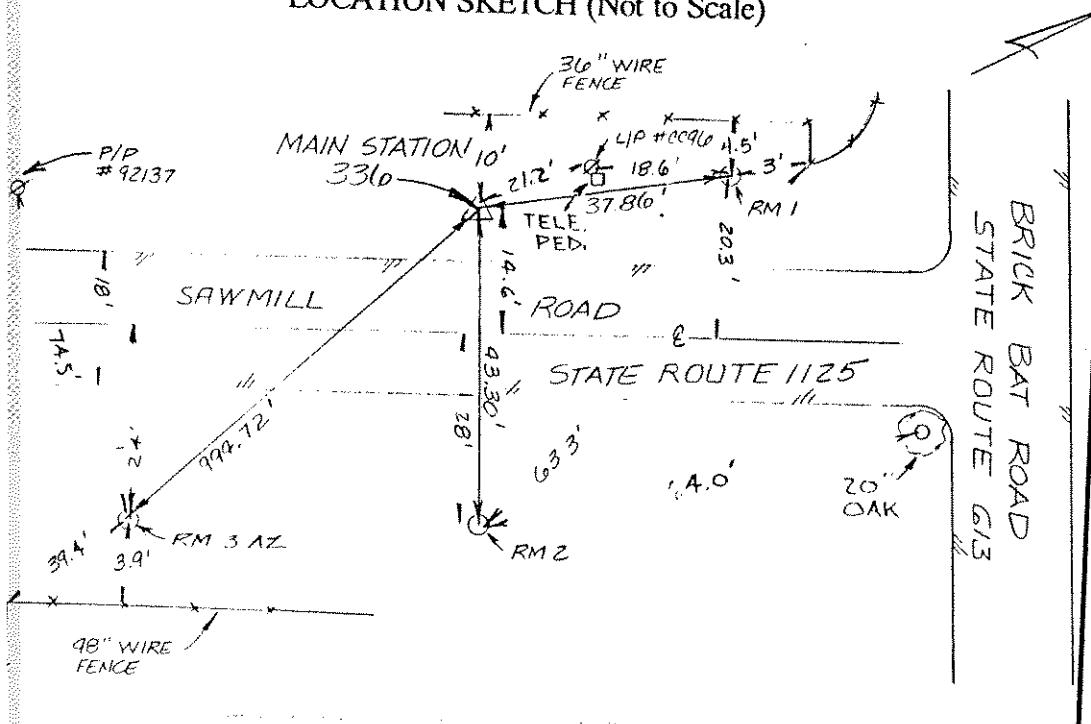
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
336	Meters	3648760.457	1105083.685
	U.S. Survey Ft.	11970974.934	3625595.391
	Int'l Ft.	11970998.876	3625602.642
336 RM3 AZ.	UNITS	EASTING (X)	NORTHING (Y)
	Meters	3648847.383	1104793.224
	U.S. Survey Ft.	11971260.122	3624642.435
	Int'l Ft.	11971284.064	3624649.684

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N22°00'49"W	37.86
RM2	N75°15'59"E	43.30
RM3 AZ.	S16°39'39"E	994.72

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 78.20

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 70.35

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

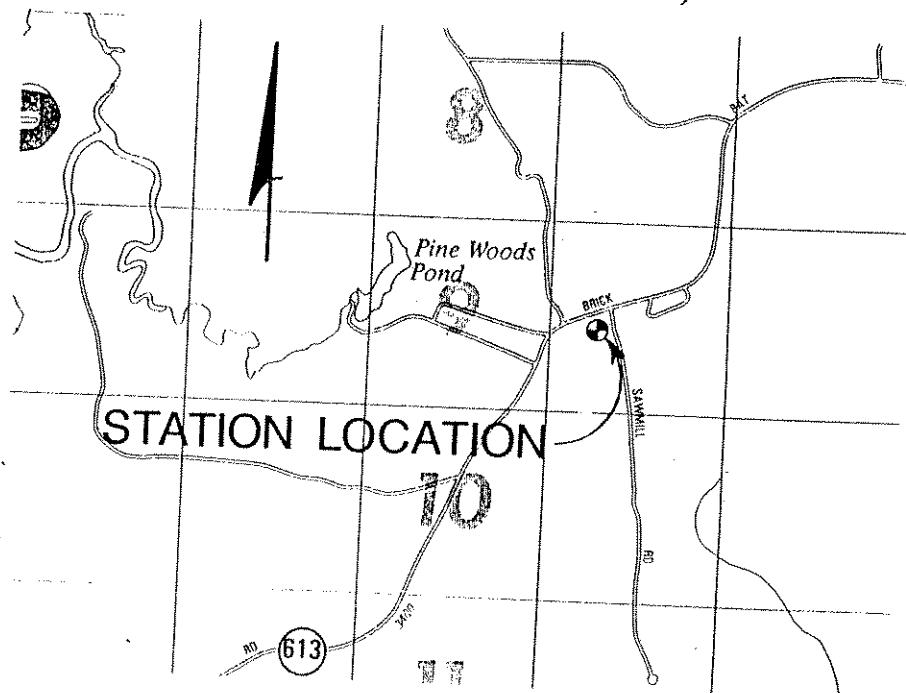
STATION NUMBER

336

FIELD BOOKS

P.S. 363, P. 72-73

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 336:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 336." The disk is located approximately 14.6' southwest of the center line of the pavement of State Route 1125 (Sawmill Road), 10' northeast of a 36" wire fence, and 21.2' south of utility pole #CC96.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 336 - REFERENCE MARK NO. 1." The disk is located 20.3' southwest of the center line of the pavement of State Route 1125 (Sawmill Road), 4.5' northeast of a 36" wire fence, 3' south of a corner of the 36" wire fence, and 18.6' northeast of utility pole #CC96.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 336 - REFERENCE MARK NO. 2." The disk is located 28' southeast of the center line of the pavement of State Route 1125 (Sawmill Road), 63.3' southeast of a corner of a 36" wire fence, and 64' southwest of a 20" oak at the intersection of State Route 1125 (Sawmill Road) and State Route 613 (Brick Bat Road).

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 336 - REFERENCE MARK NO. 3 AZ." The disk is located 24' southeast of the center line of the pavement of State Route 1125 (Sawmill Road), 74.5' northeast of utility pole #92137, 3.9' northwest of a 48" wire fence, and 39.4' northwest of the south end of the 48" wire fence.

STATION NAME:	336
Latitude (dms)	37 16 06.03092
Longitude (dms)	76 49 21.58987
State Plane Zone (4502)	Virginia South
Scale	0.999946891
Convergence (dms)	1 01 04.861

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.

337

UNITS EASTING (X) NORTHING (Y)

Meters 3661397.324 1105023.635

U.S. Survey Ft. 12012434.387 3625398.375

Int'l Ft. 12012458.412 3625405.626

STA. AZIMUTH MARK

UNITS EASTING (X) NORTHING (Y)

Meters 3661864.206 1104528.251

U.S. Survey Ft. 12013966.148 3623773.103

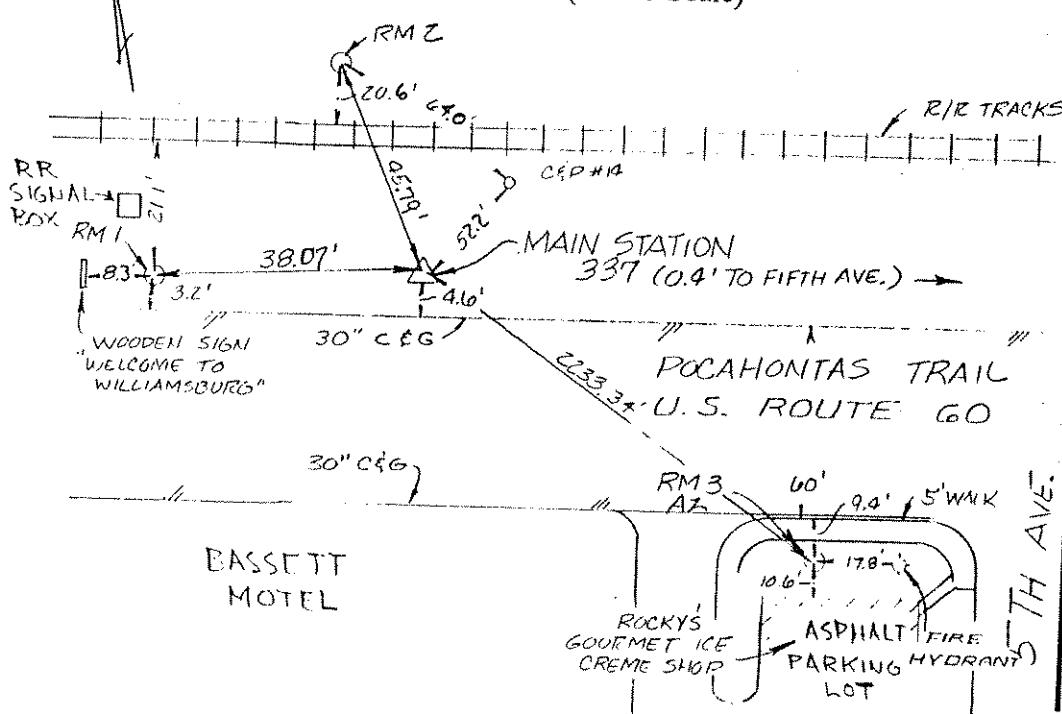
Int'l Ft. 12013990.176 3623780.350

337 RM3 AZ.

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N48°20'46"W	38.07
RM2	N43°03'49"E	45.79
RM3 AZ.	S43°18'12"E	2233.34

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 81.96

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 76.68

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

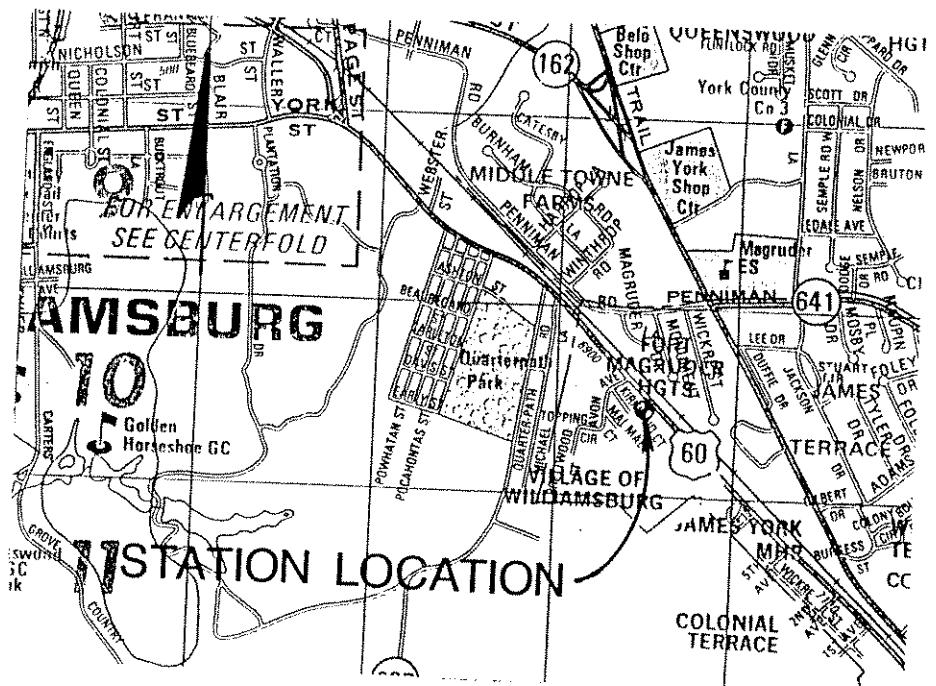
STATION NUMBER

337

FIELD BOOKS

P.S. 363, P. 20-22

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 337:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 337." The disk is located 0.4 mile west of Fifth Avenue, 4.6' north of the back of the curb on the north side of U.S. Route 60 (Pocahontas Trail), 52.2' southwest of Chesapeake & Potomac Telephone Company utility pole #14.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 337 - REFERENCE MARK NO. 1." The disk is located 3.2' north of the back of the curb on the north side of U.S. Route 60 (Pocahontas Trail), 8.3' east of a wooden "Welcome to Williamsburg" sign, and 21.1' south of the railroad tracks.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 337 - REFERENCE MARK NO. 2." The disk is located 20.6' north of the railroad tracks, and 64.0' northwest of Chesapeake & Potomac Telephone Company utility pole #14.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 337 - REFERENCE MARK NO. 3 AZ." The disk is located on the south side of U.S. Route 60 (Pocahontas Trail), 10.6' north of the asphalt parking lot for Rocky's Gourmet Ice Cream Shop, 17.8' west of a fire hydrant, and 9.4' south of the north side of a 5' concrete walk.

STATION NAME:	337
Latitude (dms)	37 15 56.49090
Longitude (dms)	76 40 48.80957
State Plane Zone (4502)	Virginia South
Scale	0.999946972
Convergence (dms)	1 06 16.080

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
338	Meters	3666352.928	1101377.921
	U.S. Survey Ft.	12028692.899	3613437.395
	Int'l Ft.	12028716.957	3613444.622

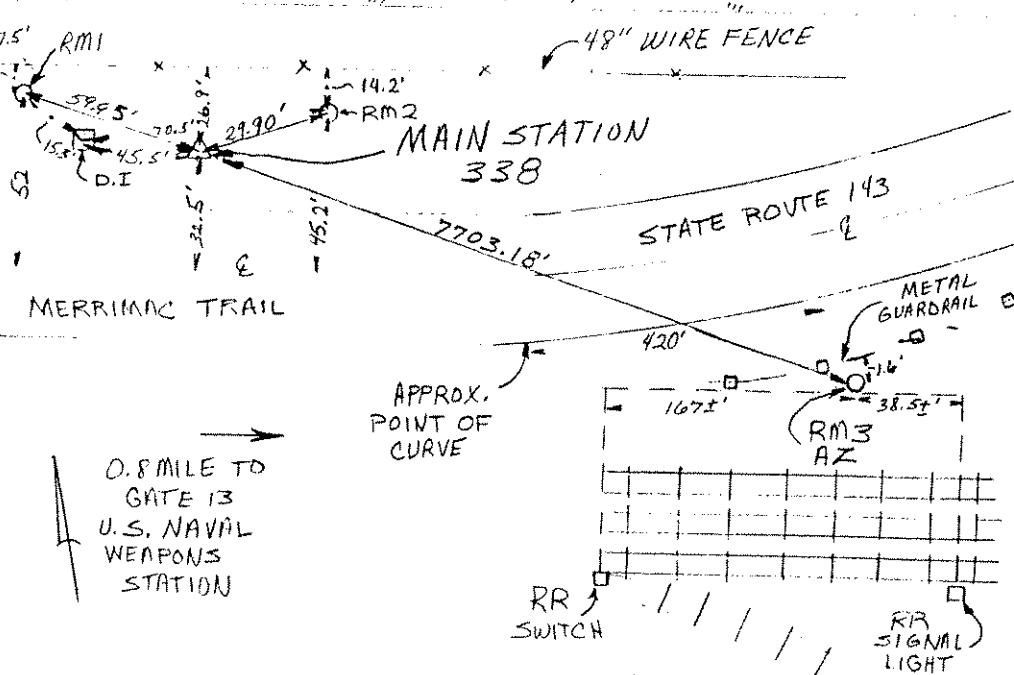
STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
338 RM3 AZ.	Meters	3668054.122	1099759.672
	U.S. Survey Ft.	12034274.232	3608128.189
	Int'l Ft.	12034298.301	3608135.406

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N27°56'34"E	59.95
RM2	S71°51'51"E	29.90
RM3 AZ.	S46°25'53"E	7703.18

LOCATION SKETCH (Not to Scale)

I-64



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 78.67

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 78.61

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

ROBERTS

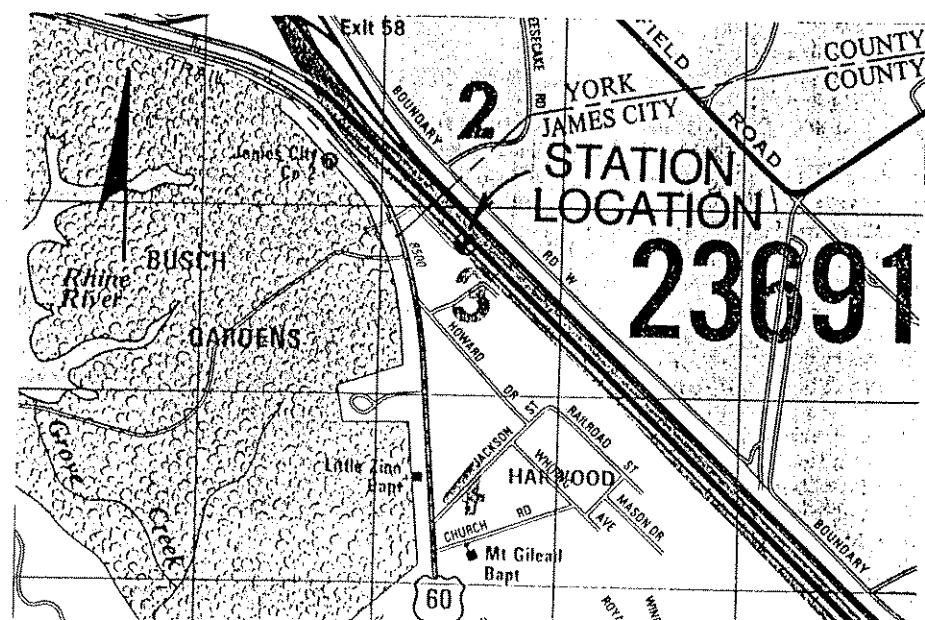
STATION NUMBER

338

FIELD BOOKS

P.S. 363, P. 16-18 & 46

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 338:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 338." The disk is located approximately 0.8 mile west of Gate 13 of the U.S. Naval Weapons Station, 32.5' north of the center line of the pavement of State Route 143 (Merrimac Trail), 45.5' southeast of the center of a drop inlet, and 26.9' southwest of a 48" wire fence.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 338 – REFERENCE MARK NO. 1." The disk is located 52' north of the center line of the pavement of State Route 143 (Merrimac Trail), 7.5' south of a 48" wire fence, and 15.3' northwest of the center of a drop inlet.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 338 – REFERENCE MARK NO. 2." The disk is located 45.2' north of the center line of the pavement of State Route 143 (Merrimac Trail), 14.2' southwest of a 48" wire fence, and 70.4' east of the center of a drop inlet.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 338 – REFERENCE MARK NO. 3 AZ." The disk is located approximately 420' east of the point of curve of State Route 143 (Merrimac Trail), 27.5' south of the center line of the pavement of State Route 143 (Merrimac Trail), 1.6' southwest of a metal guardrail, 167±' east of a point opposite a railroad switch, and 38.5' west of a point opposite a railroad signal light.

STATION NAME:	338
Latitude (dms)	37 13 55.10362
Longitude (dms)	76 37 30.64993
State Plane Zone (4502)	Virginia South
Scale	0.999948184
Convergence (dms)	1 08 16.348

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

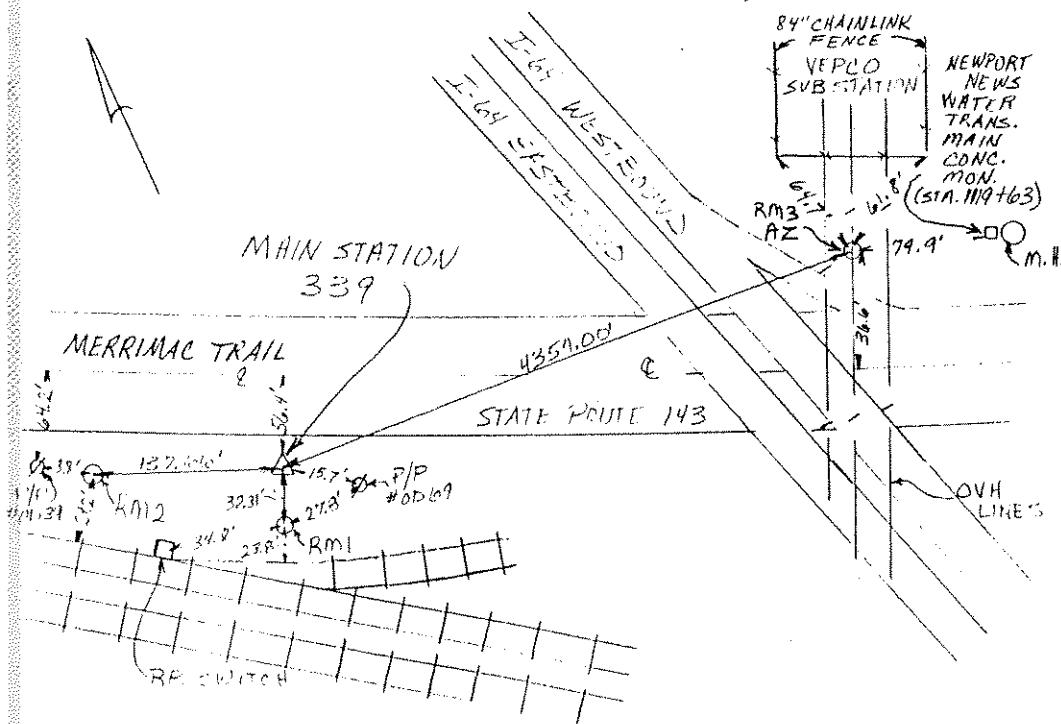
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
339	Meters	3668685.145	1099412.508
	U.S. Survey Ft.	12036344.514	3606989.203
	Int'l Ft.	12036368.587	3606996.417

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
339 RM3 AZ.	Meters	3670008.606	1099314.288
	U.S. Survey Ft.	12040686.569	3606666.961
	Int'l Ft.	12040710.651	3606674.174

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S12°26'23"W	32.31
RM2	N76°56'18"W	137.66
RM3 AZ.	S85°45'20"E	4354.00

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 60.23

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 68.62

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

ROBERTS

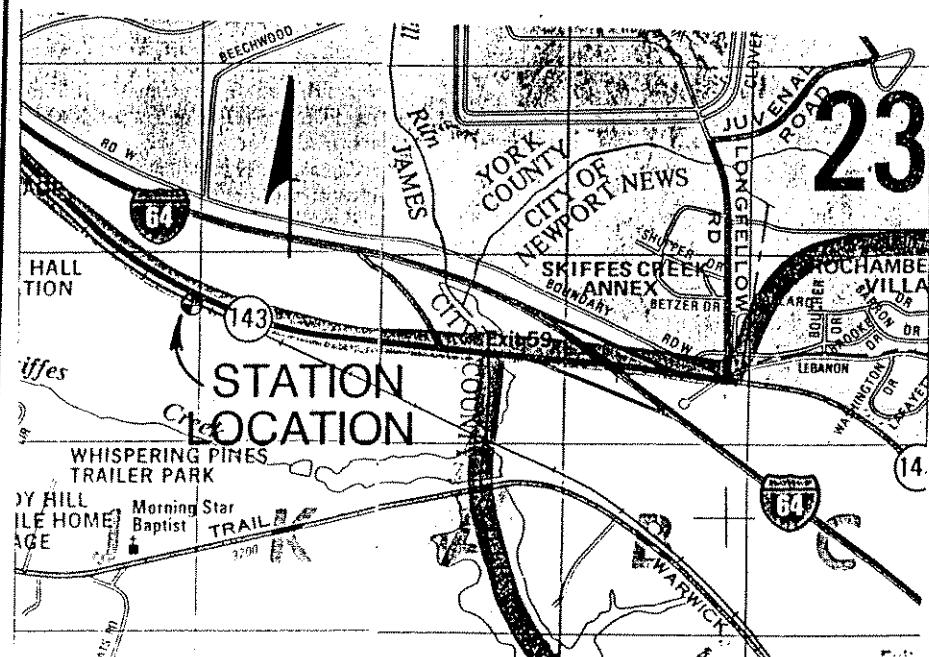
STATION NUMBER

339

FIELD BOOKS

P.S. 363, P. 14-16

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 339:

A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 339." The disk is located approximately 0.6 mile west of Interstate 64, 56.4' south of the center line of the pavement of State Route 143 (Merrimac Trail), and 15.7' northwest of utility pole #OD69.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 339 – REFERENCE MARK NO. 1." The disk is located 27.8' west of utility pole #OD69, 23.8' north of the railroad tracks, and 34.8' north of a railroad switch.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 339 – REFERENCE MARK NO. 2." The disk is located 64.2' south of the center line of the pavement of State Route 143 (Merrimac Trail), 3.8' east of utility pole #OD39, and 29.2' north of the railroad tracks.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 339 – REFERENCE MARK NO. 3 AZ." The disk is located 36.6' north of the center line of the pavement of State Route 143 (Merrimac Trail), 79.9' west of a Newport News Water Transmission Main concrete monument with disk (Sta. 1119+63), 61.8' southwest of the southeast corner of an 84" chainlink fence around a Vepco substation, 64.7' southeast of the southwest corner of the 84" chainlink fence around the Vepco substation.

STATION NAME: 339

Latitude (dms) 37 12 49.84678

Longitude (dms) 76 35 57.65676

State Plane Zone (4502) Virginia South

Scale 0.999948978

Convergence (dms) 1 09 12.788

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

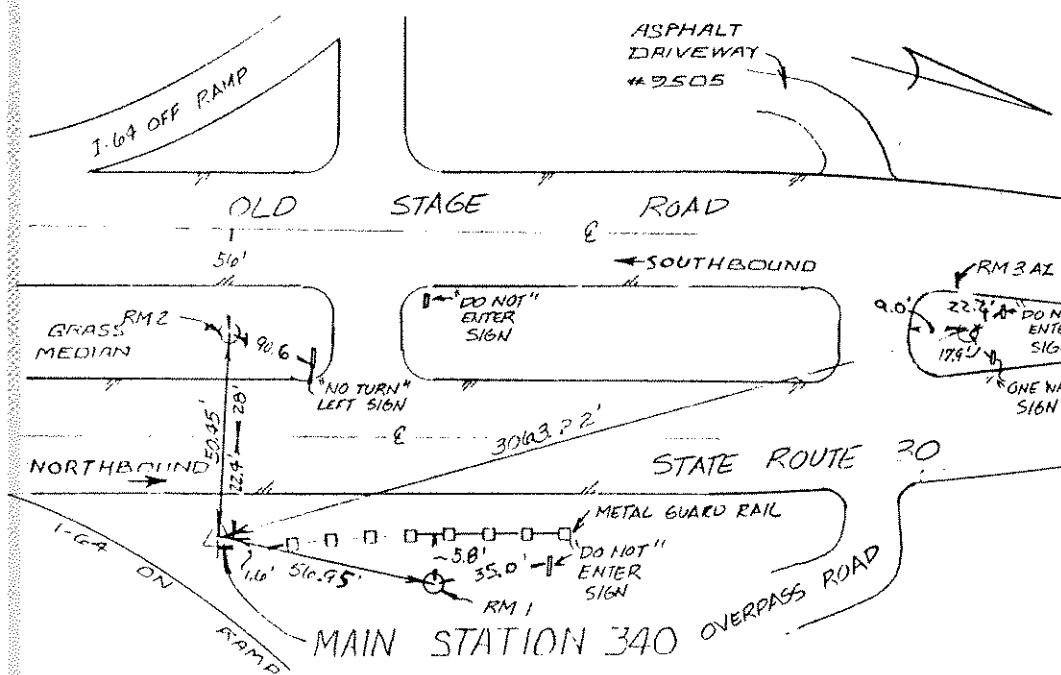
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
340	Meters	3648476.947	1121839.231
	U.S. Survey Ft.	11970044.785	3680567.542
	Int'l Ft.	11970068.725	3680574.903

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
340 RM3 AZ.	Meters	3647966.977	1122621.326
	U.S. Survey Ft.	11968371.657	3683133.468
	Int'l Ft.	11968395.594	3683140.834

REFERENCE AND AZIMUTH MARK LOCATIONS

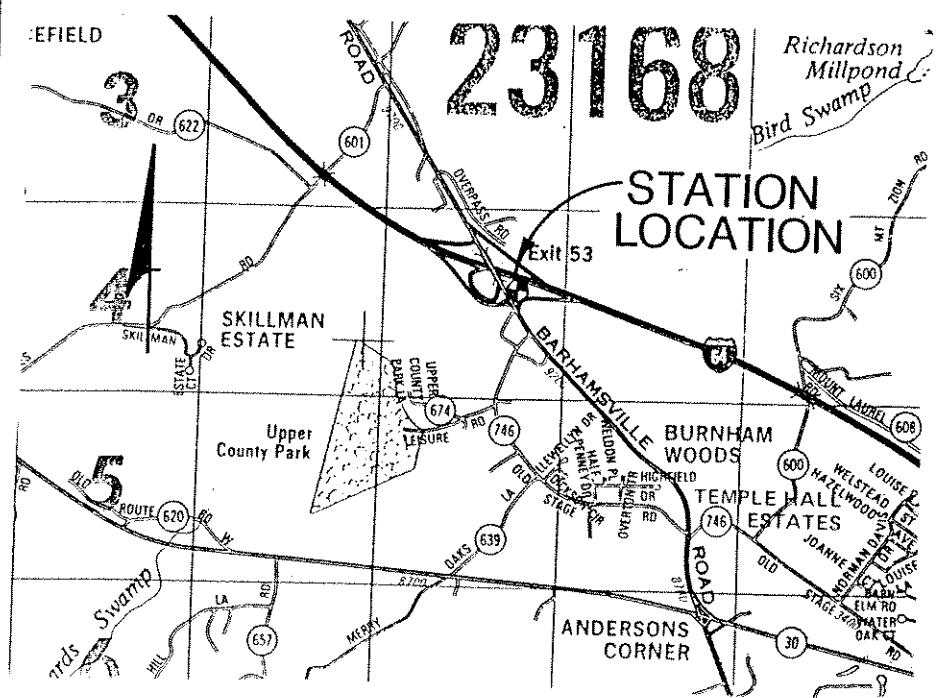
OBJECT	BEARING	DISTANCE (FEET)
RM1	N26°48'25"W	56.95
RM2	S58°58'53"W	50.45
RM3 AZ.	N33°06'24"W	3063.22

LOCATION SKETCH (Not to Scale)



VERTICAL DATA	
Elevations refer to National Geodetic Vertical Datum (1929)	
Elevation of Station in Feet = 123.20	
FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE	
Elevation of Azimuth Mark in Feet = 109.02	
COUNTY / CITY	DISTRICT
JAMES CITY COUNTY	STONEHOUSE
STATION NUMBER	FIELD BOOKS
340	P.S. 365, P. 19-21

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 340:

A 3½" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 340." The disk is located 22.4' east of the center line of the pavement of the northbound lanes of State Route 30 (Old Stage Road), and 1.6' south of the end of a metal guardrail.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 340 – REFERENCE MARK NO. 1." The disk is located 5.8' east of a metal guardrail on the east side of the northbound lanes of State Route 30 (Old Stage Road), and 35.0' southeast of a "Do Not Enter" sign.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 340 – REFERENCE MARK NO. 2." The disk is located in the median 28' west of the center line of the pavement of the northbound lanes of State Route 30 (Old Stage Road), 90.6' south of a "No Left Turn" sign, and 56' east of the center line of the pavement of the eastbound lanes of State Route 30 (Old Stage Road).

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 340 – REFERENCE MARK NO. 3 AZ." The disk is located at the intersection of State Route 30 (Old Stage Road) and Overpass Road, 9.0' north of the north edge of the pavement of a median crossing of State Route 30 (Old Stage Road), 22.2 southeast of a "Do Not Enter" sign, and 17.9' southwest of a "One Way" sign.

STATION NAME:	340
Latitude (dms)	37 25 09.63895
Longitude (dms)	76 49 21.01123
State Plane Zone (4502)	Virginia South
Scale	0.999945809
Convergence (dms)	1 01 05.212

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

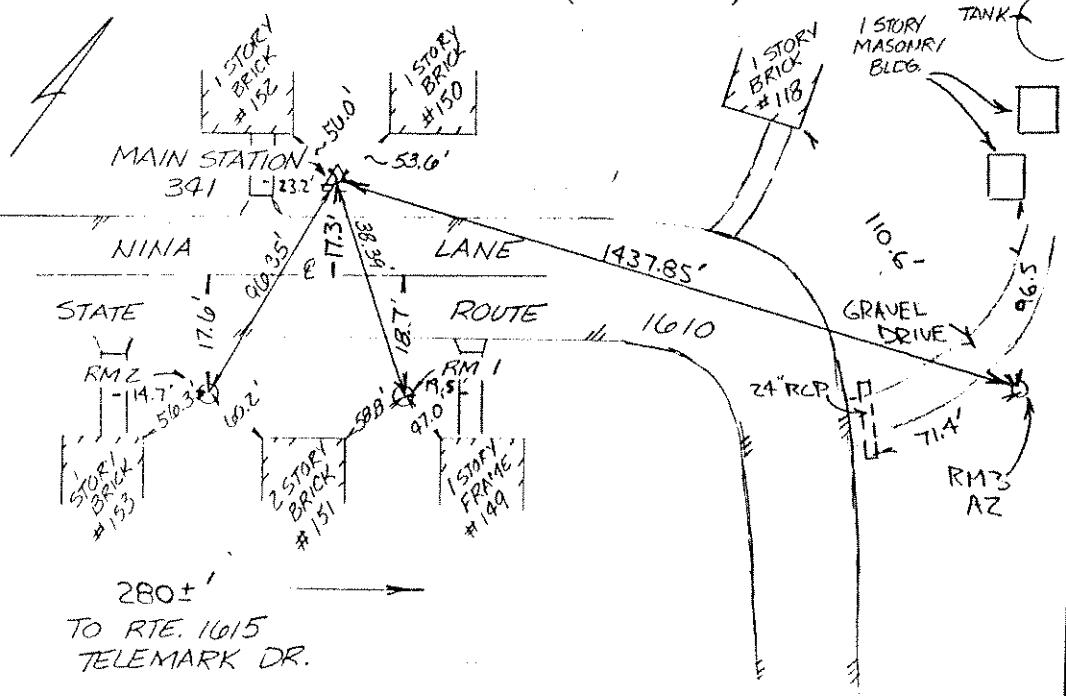
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
341	Meters	3652970.733	1115452.998
	U.S. Survey Ft.	11984788.146	3659615.379
	Int'l Ft.	11984812.115	3659622.698

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
341 RM3 AZ.	Meters	3653335.589	1115695.791
	U.S. Survey Ft.	11985985.179	3660411.940
	Int'l Ft.	11986009.151	3660419.261

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S56°50'42"E	38.39
RM2	S33°42'18"W	96.35
RM3 AZ.	N56°21'30"E	1437.85

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 107.08

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 100.06

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

STATION NUMBER

341

FIELD BOOKS

P.S. 365, P. 5-7

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 341:

A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 341." The disk is located approximately 280±' southwest of State Route 1615 (Telemark Drive), 17.3' northwest of the center line of the pavement of State Route 1610 (Nina Lane), 23.2' northeast of the center line of the driveway to residence #152, 56.0' southeast of the southeast corner of a one-story brick residence #152, and 53.6' south of the southwest corner of a one-story brick residence #150.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 341 – REFERENCE MARK NO. 1." The disk is located 18.7' southeast of the center line of the pavement of State Route 1610 (Nina Lane), 19.5' southwest of the center line of the driveway to residence #149, 58.8' northeast of the northeast corner of a two-story brick residence #151, and 47.0' northwest of the northwest corner of a one-story frame residence #149.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 341 – REFERENCE MARK NO. 2." The disk is located 17.6' southeast of the center line of the pavement of State Route 1610 (Nina Lane), 14.7' northeast of the center line of the driveway to residence #153, 56.3' northeast of the northeast corner of a one-story brick residence #153, 60.2' northwest of the northwest corner of a two-story brick residence #151.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 341 – REFERENCE MARK NO. 3 AZ." The disk is located 71.4' north of the east end of a 24" concrete pipe, 110.6' southeast of the southeast corner of a one-story brick residence #118, and 96.5' south of the southeast corner of a one-story masonry building.

STATION NAME:

341

Latitude (dms)

37 21 39.88392

Longitude (dms)

76 46 23.02719

State Plane Zone (4502) Virginia South

0.999945408

Scale

1 02 53.235

Convergence (dms)

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

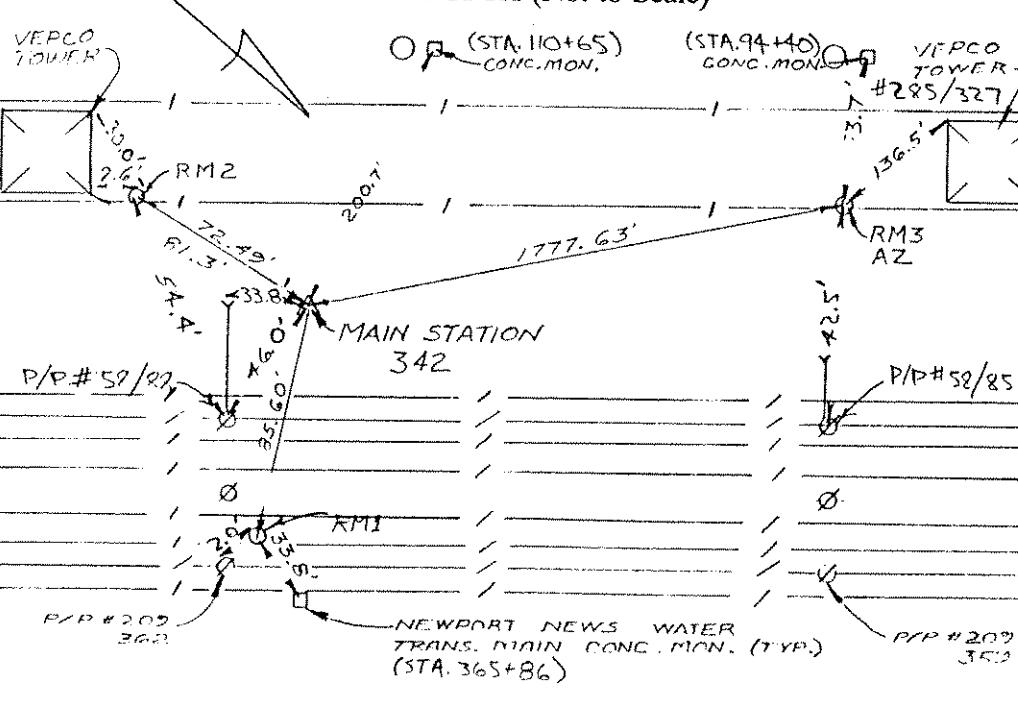
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
342	Meters	3652868.202	1113465.375
	U.S. Survey Ft.	11984451.758	3653094.319
	Int'l Ft.	11984475.727	3653101.625

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
342 RM3 AZ.	Meters	3652441.182	1113798.881
	U.S. Survey Ft.	11983050.778	3654188.496
	Int'l Ft.	11983074.744	3654195.804

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N65°42'45"E	85.60
RM2	S35°19'32"E	72.49
RM3 AZ.	N52°00'36"W	1777.63

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 88.86

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 102.79

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

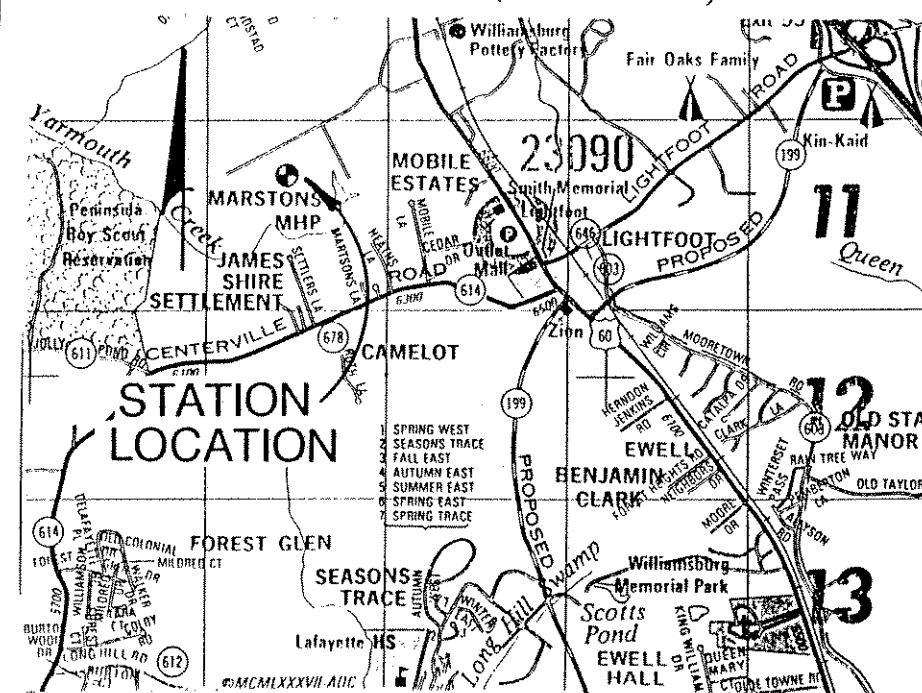
STATION NUMBER

342

FIELD BOOKS

P.S. 363, P. 78-79

LOCATION MAP (Scale: 1"=4000')



STATION DESCRIPTION

STATION NO. 342:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 342." The disk is located approximately 81.3' north of the northeast corner of a Vepco tower, 200.7' east of a Newport News Water Transmission Main concrete monument (Sta. 110+65), 46.0' west of utility pole #58/88, and 38.8' northwest of a guy wire from utility pole #58/88.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 342 – REFERENCE MARK NO. 1." The disk is located 2.0' west of the utility pole #209/362, and 33.8' south of a Newport News Water Transmission Main concrete monument (Sta. 365+86)

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 342 – REFERENCE MARK NO. 2." The disk is located 9.6' northwest of the northeast corner of a Vepco tower, 30.0' north of the northwest corner of the tower, and 54.4' southwest of utility pole #58/88.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 342 – REFERENCE MARK NO. 3 AZ." The disk is located 136.5' east of the southwest corner of a Vepco tower #285/327, 53.7' northeast of a Newport News Water Transmission Main concrete monument (Sta. 94+40), and 42.5' southwest of utility pole #58/85.

STATION NAME: 342

Latitude (dms) 37 20 35.47940

Longitude (dms) 76 46 28.66951

State Plane Zone (4502) Virginia South

Scale 0.999945491

Convergence (dms) 1 02 49.810

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

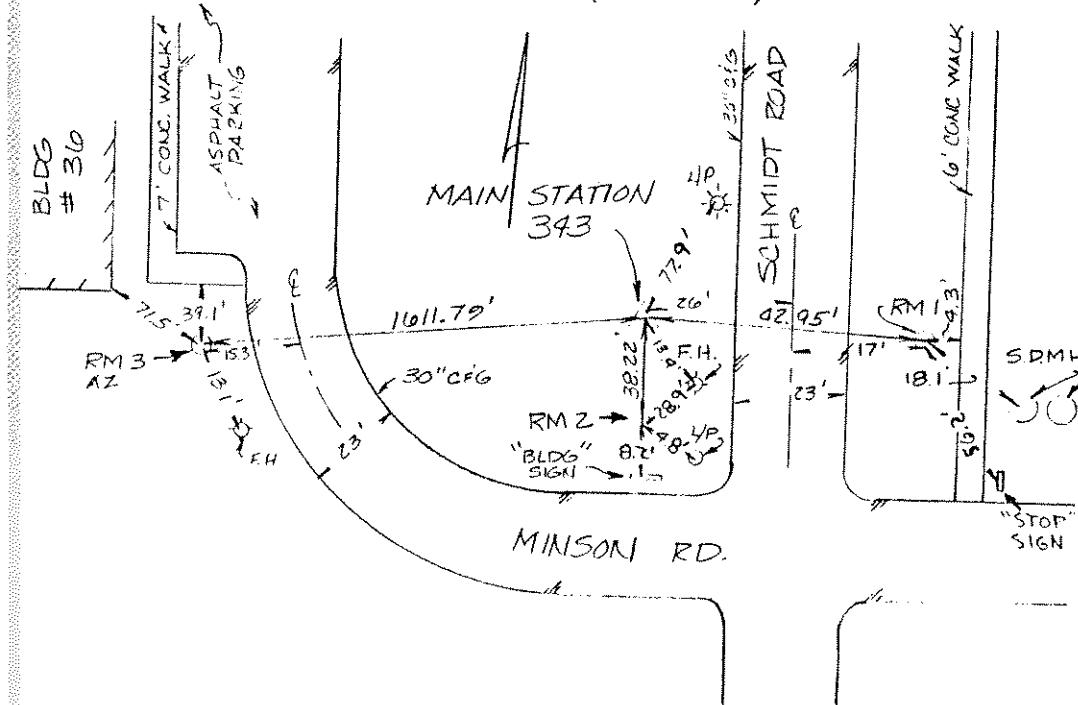
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
343	Meters	3656183.718	1107617.098
	U.S. Survey Ft.	11995329.416	3633907.095
	Int'l Ft.	11995353.407	3633914.363
STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
343 RM3 AZ.	Meters	3655694.584	1107571.280
	U.S. Survey Ft.	11993724.648	3633756.776
	Int'l Ft.	11993748.636	3633764.043

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N84°44'25"E	42.95
RM2	S12°19'28"E	38.22
RM3 AZ.	S84°38'55"W	1611.79

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 95.82

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 82.00

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

BERKELEY

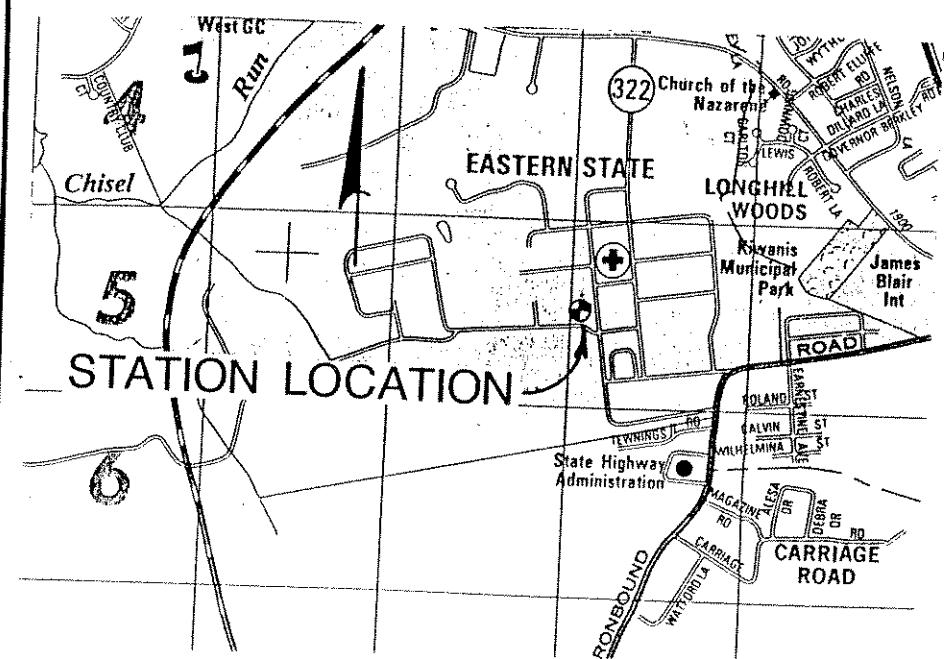
STATION NUMBER

343

FIELD BOOKS

P.S. 363, P. 58-59

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 343:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 343." The disk is located at the intersection of Schmidt Road and Minson Road on the grounds of Eastern State Hospital, 26' west of the center line of the pavement of Schmidt Road, 13.4' northwest of a fire hydrant, and 77.9' southwest of a light pole.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 343 – REFERENCE MARK NO. 1." The disk is located 17' east of the center line of the pavement of Schmidt Road, 18.1' northwest of a storm drain manhole, 4.3' west of the west side of a 6' concrete walk, and 56.2' northwest of a "Stop" sign.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 343 – REFERENCE MARK NO. 2." The disk is located 8.2' north of a building sign, 4.8' northwest of a light pole, and 28.9' southwest of a fire hydrant.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 343 – REFERENCE MARK NO. 3 AZ." The disk is located 15.3' west of the center line of the pavement of Minson Road, 13.1' northwest of a fire hydrant, 39.1' south of the edge of a 7' concrete walk, and 71.5' southeast of the southeast corner of building #36.

STATION NAME:	343
Latitude (dms)	37 17 23.81337
Longitude (dms)	76 44 18.41817
State Plane Zone (4502)	Virginia South
Scale	0.999946313
Convergence (dms)	1 04 08.863

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.

344

UNITS

EASTING (X)

NORTHING (Y)

Meters

3653905.765

1099805.789

U.S. Survey Ft.

11987855.829

3608279.491

Int'l Ft.

11987879.805

3608286.708

STA. AZIMUTH MARK

344 RM3 AZ.

UNITS

EASTING (X)

NORTHING (Y)

Meters

3654591.777

1099510.691

U.S. Survey Ft.

11990106.521

3607311.326

Int'l Ft.

11990130.502

3607318.541

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT

BEARING

DISTANCE (FEET)

RM1

S14°30'10"W

87.47

RM2

N73°47'22"W

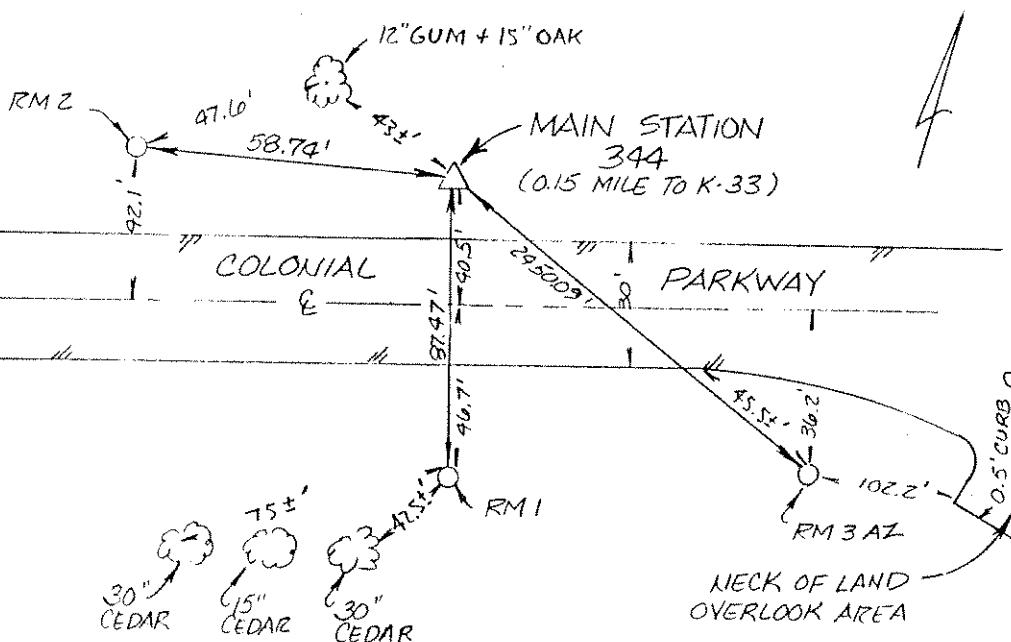
58.74

RM3 AZ.

S66°43'28"E

2450.09

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 12.96

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 17.44

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

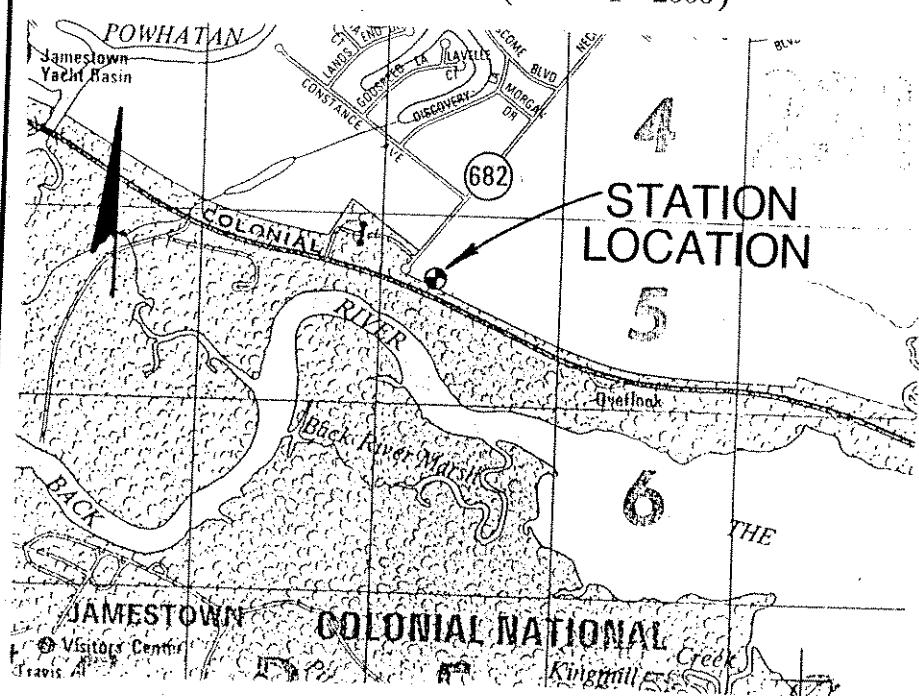
STATION NUMBER

344

FIELD BOOKS

P.S. 363, P. 24-26

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 344:

A 3 $\frac{1}{4}$ " disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 344." The disk is located approximately 0.15 mile west of concrete post #K-33, 40.5' north of the center line of the pavement of the Colonial Parkway, 43±' southeast of a split 12" gum tree and 15" oak tree.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 344 - REFERENCE MARK NO. 1." The disk is located 46.7' south of the center line of the pavement of the Colonial Parkway, 42.5±' north of a 30" cedar tree, and 75±' northeast of another 30" cedar tree.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 344 - REFERENCE MARK NO. 2." The disk is located 42.1' north of the center line of the pavement of the Colonial Parkway, and 47.6' southwest of a split 12" gum tree and 15" oak tree.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 344 - REFERENCE MARK NO. 3 AZ." The disk is located 36.2' south of the center line of the pavement of the Colonial Parkway, 102.2' west of the southwest corner of the Neck-Of-Land Overlook area parking lot, and 45.5±' southeast of the approximate beginning of the curve entering into the Neck-Of-Land Overlook area.

STATION NAME:	344
Latitude (dms)	37 13 11.83170
Longitude (dms)	76 45 56.71559
State Plane Zone (4502)	Virginia South
Scale	0.999948700
Convergence (dms)	1 03 09.204

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

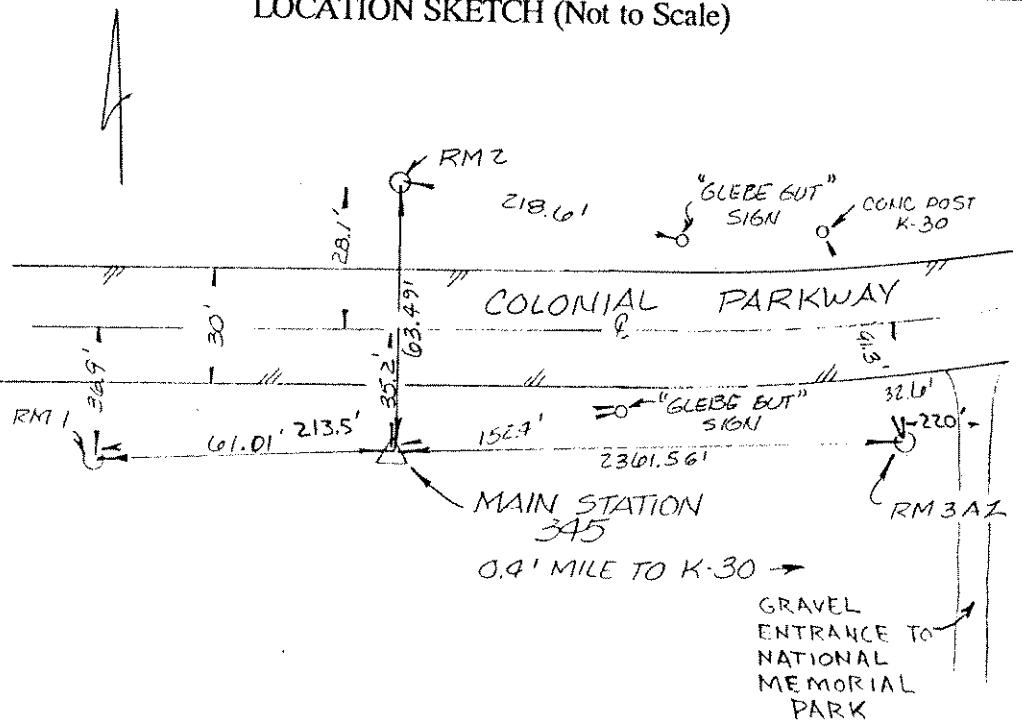
VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
345	Meters	3656325.377	1099158.636
	U.S. Survey Ft.	11995794.174	3606156.291
	Int'l Ft.	11995818.166	3606163.503
STA. AZIMUTH MARK 345 RM3 AZ.	UNITS	EASTING (X)	NORTHING (Y)
	Meters	3657044.789	1099134.895
	U.S. Survey Ft.	11998154.445	3606078.402
	Int'l Ft.	11998178.441	3606085.614

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N83°18'10"W	61.01
RM2	N11°30'56"E	63.49
RM3 AZ.	S88°06'36"E	2361.56

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 7.61

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 9.38

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

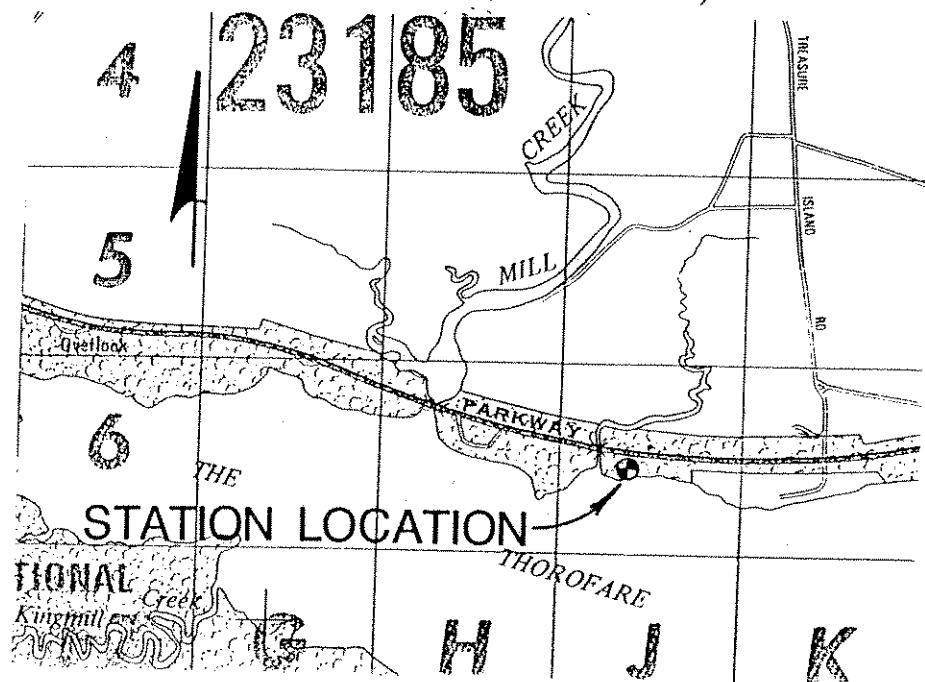
STATION NUMBER

345

FIELD BOOKS

P.S. 363, P. 22-24

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 345:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 345." The disk is located approximately 0.4' mile from concrete post #K-30, 35.6' south of the center line of the pavement of the Colonial Parkway, and 152.4' west of "Glebe Gut" sign.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 345 - REFERENCE MARK NO. 1." The disk is located 36.9' south of the center line of the pavement of the Colonial Parkway, and 213.5' west of a "Glebe Gut" sign.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 345 - REFERENCE MARK NO. 2." The disk is located 28.1' north of the center line of the pavement of the Colonial Parkway, and 218.6' northwest of "Glebe Gut" sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 345 - REFERENCE MARK NO. 3 AZ." The disk is located approximately 220' west of a gravel entrance to the National Memorial Park, 32.6' south of the center line of the pavement of the Colonial Parkway, and 91.3' southeast of concrete post #K-30.

STATION NAME:	345
Latitude (dms)	37 12 49.38891
Longitude (dms)	76 44 19.07485
State Plane Zone (4502)	Virginia South
Scale	0.999948984
Convergence (dms)	1 04 08.465

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

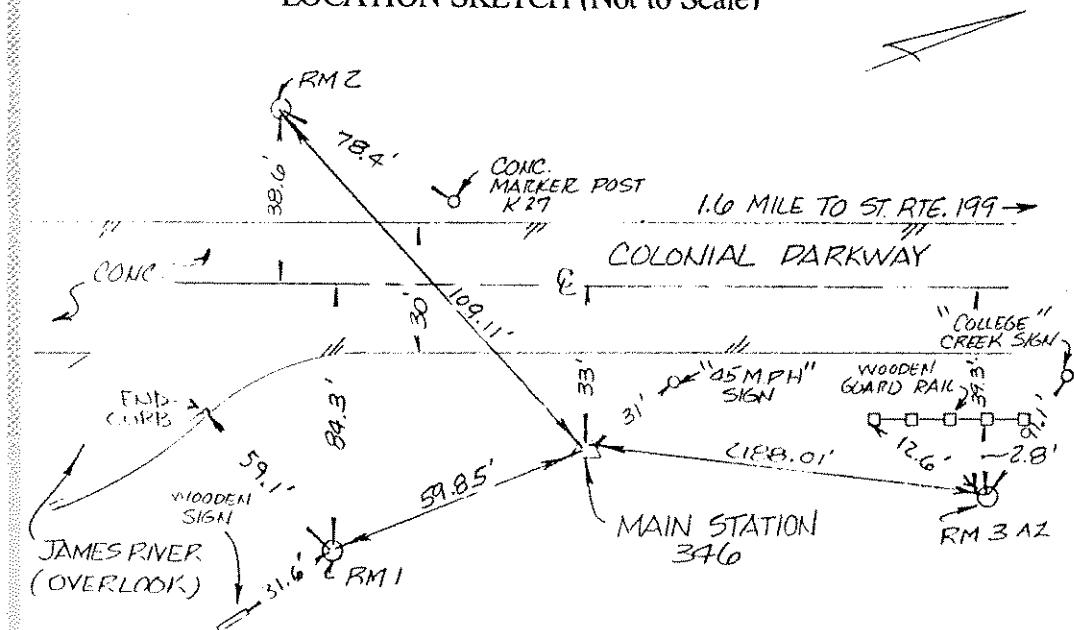
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
346	Meters	3659868.478	1099935.972
	U.S. Survey Ft.	12007418.499	3608706.600
	Int'l Ft.	12007442.514	3608713.817

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
346 RM3 AZ.	Meters	3660186.137	1100522.366
	U.S. Survey Ft.	12008460.683	3610630.462
	Int'l Ft.	12008484.700	3610637.683

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S16°00'05"E	59.85
RM2	S84°07'11"W	109.11
RM3 AZ.	N28°26'42"E	2188.01

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 9.11

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 10.88

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

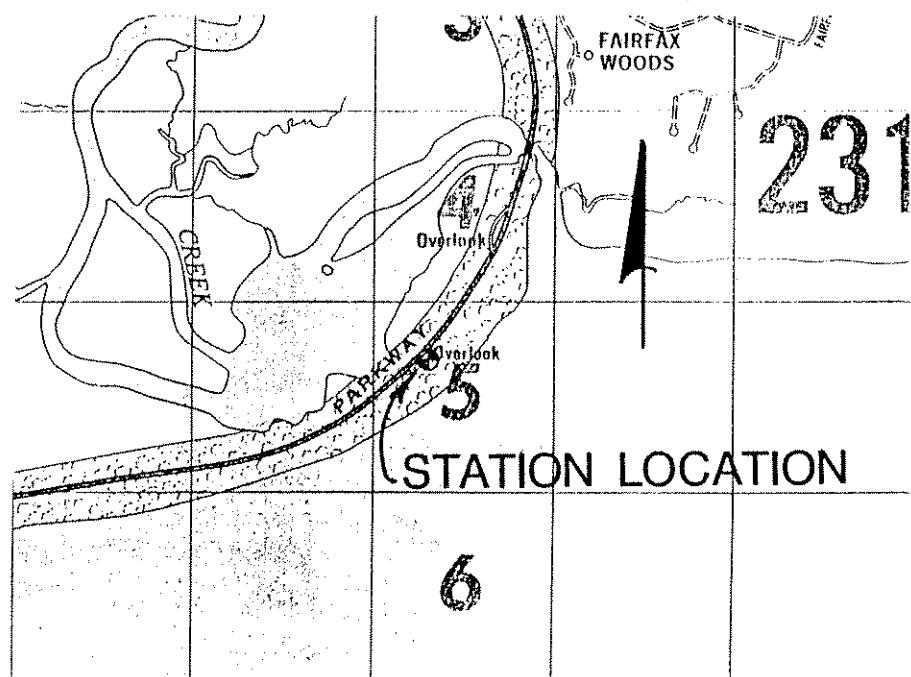
STATION NUMBER

346

FIELD BOOKS

P.S. 363, P. 13-14

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 346:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 346." The disk is located approximately 1.6 mile south of State Route 199 (South By-Pass) on the Colonial Parkway, 33' southeast of the center line of the pavement of the Colonial Parkway, and 31' south of a "45 MPH" sign.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 346 – REFERENCE MARK NO. 1." The disk is located 85±' southeast of the center line of the pavement of the Colonial Parkway, 31.6' north of a wooden sign at the James River Overlook, and 59.1' northeast of the end of the curb of the James River Overlook.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 346 – REFERENCE MARK NO. 2." The disk is located 38.6' northwest of the center line of the pavement of the Colonial Parkway, and 78.4' southwest of concrete marker post #K27.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 346 – REFERENCE MARK NO. 3 AZ." The disk is located 39.3' southeast of the center line of the pavement of the Colonial Parkway, 91.1' southeast of "College Creek" sign, 2.8' southeast of a wooden guardrail, and 12.6' northeast of the end of the wooden guardrail.

STATION NAME: 346

Latitude (dms) 37 13 12.43202

Longitude (dms) 76 41 54.79121

State Plane Zone (4502) Virginia South

Scale 0.999948692

Convergence (dms) 1 05 36.034

JAMES CITY COUNTY

PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

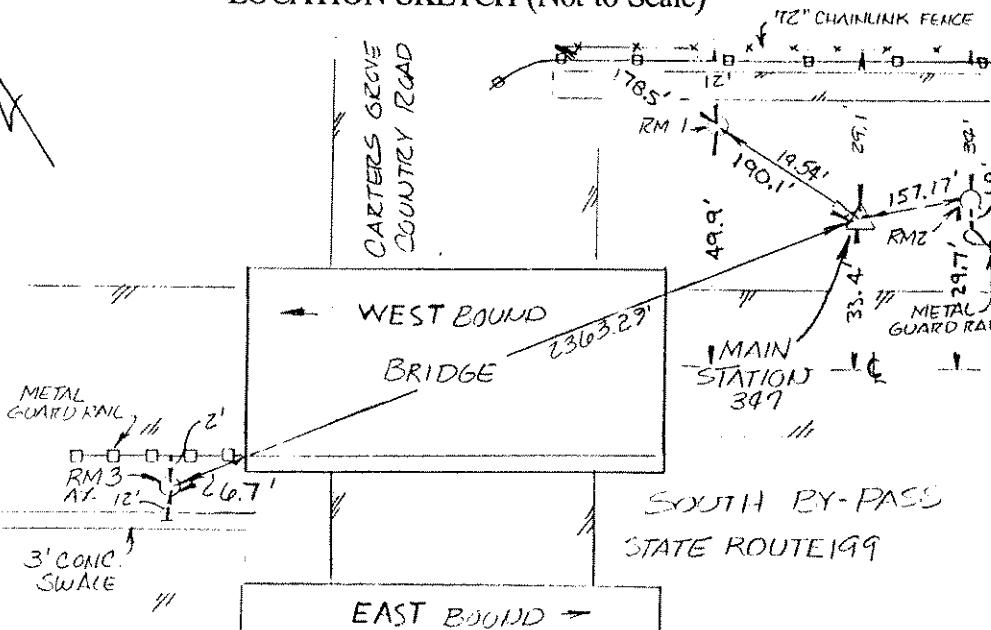
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
347	Meters	3660515.282	1103001.470
	U.S. Survey Ft.	12009540.555	3618763.991
	Int'l Ft.	12009564.574	3618771.228

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
347 RM3 AZ.	Meters	3659807.660	1103136.196
	U.S. Survey Ft.	12007218.965	3619206.004
	Int'l Ft.	12007242.979	3619213.242

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N17°58'04"W	19.54
RM2	S77°55'17"E	157.17
RM3 AZ.	N79°13'13"W	2363.29

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 35.04

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 87.53

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

JAMESTOWN

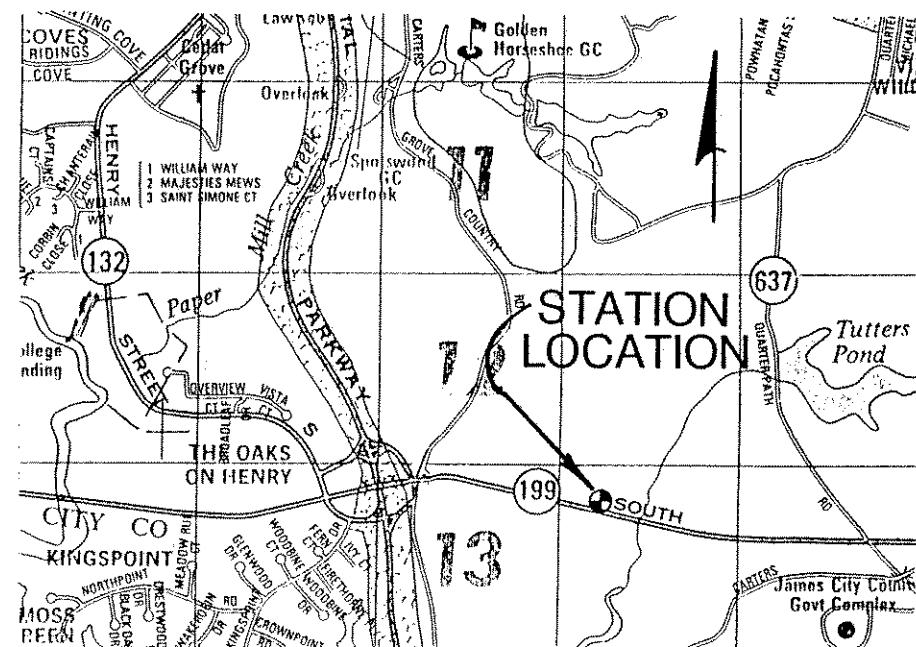
STATION NUMBER

347

FIELD BOOKS

P.S. 363, P. 11-12

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 347:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 347." The disk is located approximately 33.4' northeast of the center line of the pavement of State Route 199 (South By-Pass), 29.1' southwest of a 72" chainlink fence, and 190.1' southeast of the west end of the 72" chainlink fence.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 347 – REFERENCE MARK NO. 1." The disk is located 49.9' northeast of the center line of the pavement of State Route 199 (South By-Pass), 12' southwest of a 72" chainlink fence, and 178.5' southeast of the west end of the 72" chainlink fence.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 347 – REFERENCE MARK NO. 2." The disk is located 29.9' northeast of the center line of the pavement of State Route 199 (South By-Pass), 34' southwest of the east end of a 72" chainlink fence, and 1.9' northeast of the end of a metal guardrail.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 347 – REFERENCE MARK NO. 3 AZ." The disk is in the median of State Route 199 (South By-Pass) west of Carters Grove Country Road, 6.7' west of the point where a metal guardrail meets the bridge over Carters Grove Country Road, 2' southwest of the guardrail, and 12' northeast of a 3' concrete swale.

STATION NAME: 347

Latitude (dms) 37 14 51.45543

Longitude (dms) 76 41 26.17627

State Plane Zone (4502) Virginia South

Scale 0.999947579

Convergence (dms) 1 05 53.401

JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

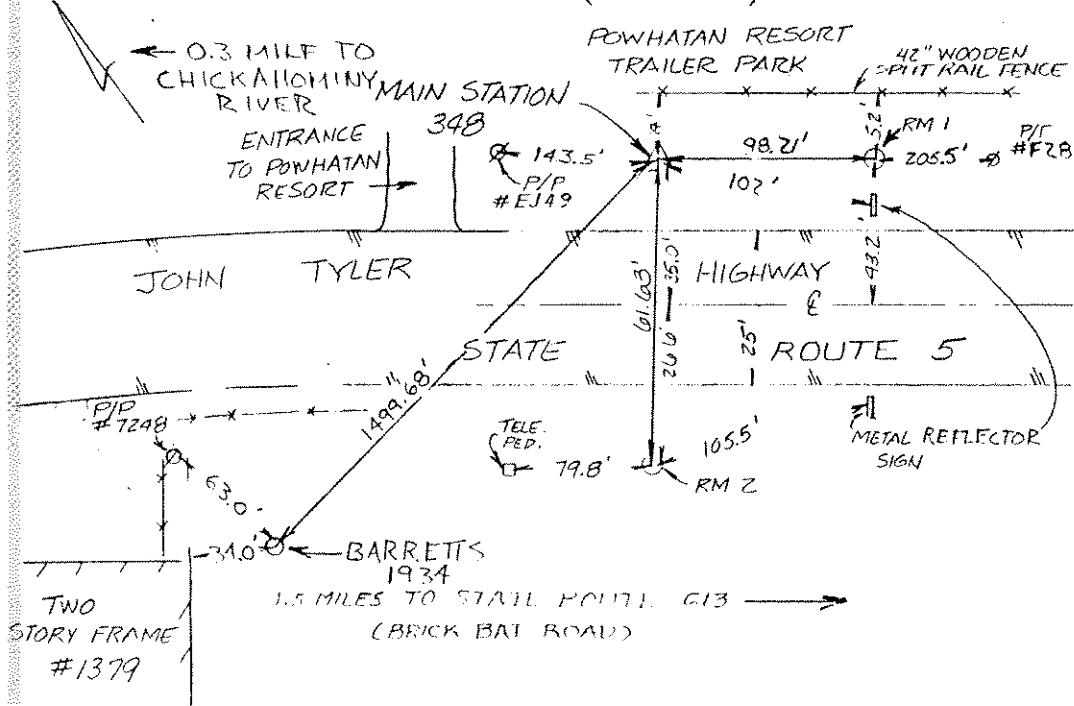
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
348	Meters	3644790.859	1104536.962
	U.S. Survey Ft.	11957951.344	3623801.682
	Int'l Ft.	11957975.260	3623808.929

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
BARRETT'S 1934 (1990)	Meters	3644333.888	1104548.004
	U.S. Survey Ft.	11956452.097	3623837.908
	Int'l Ft.	11956476.010	3623845.156

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S66°47'43"E	98.21
RM2	S30°03'13"W	61.63
BARRETT'S 1934(1990)	N88°36'57"W	1499.68

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 13.79

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

Elevation of Azimuth Mark in Feet = 11.79

COUNTY / CITY

JAMES CITY COUNTY

DISTRICT

POWHATAN

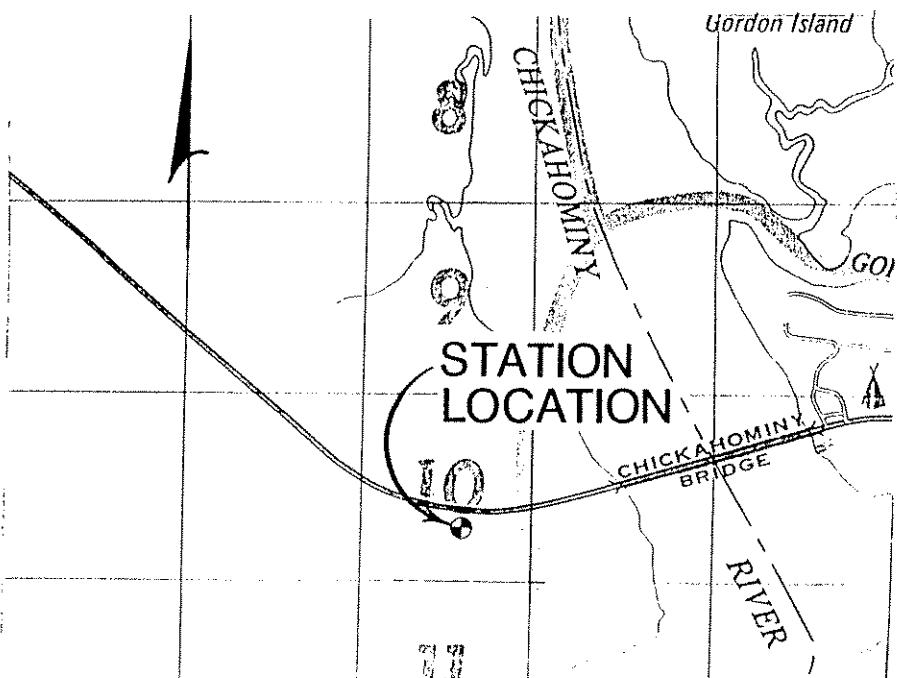
STATION NUMBER

348

FIELD BOOKS

P.S. 363, P. 74-75

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 348:

A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 348." The disk is located 1.5 miles east of State Route 613 (Brick Bat Road), 0.3 miles west of the Chickahominy River, 35.0' northeast of the center line of the pavement of State Route 5 (John Tyler Highway), 14' southwest of a 42" wooden split rail fence, 143.5' southeast of utility pole #EJ49, and 102.0' northwest of a reflector sign.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 8" below the ground surface, stamped "STATION NO. 348 – REFERENCE MARK NO. 1." The disk is located 43.2' northeast of the center line of the pavement of State Route 5 (John Tyler Highway), 5.2' southwest of a 42" wooden split rail fence, and 205.5' northwest of utility pole #F28.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 348 – REFERENCE MARK NO. 2." The disk is located 26.6' southwest of the center line of the pavement of State Route 5 (John Tyler Highway), 79.8' southeast of a telephone pedestal, and 105.5' west of a metal reflector sign.

BARRETT'S 1934 (1990):

A 2" disk in concrete, set approximately 1" above the ground surface, stamped "BARRETT'S 1934." The disk is located on the south side of State Route 5 (John Tyler Highway), 8.7' south of a 60" wire fence, 63' south of utility pole #7248, 34.0' east of the northeast corner of a two-story frame residence #1379.

STATION NAME: 348

Latitude (dms) 37 15

50.55561

Longitude (dms) 76 52

03.07298

State Plane Zone (4502) Virginia South

Scale 0.999947023

Convergence (dms) 0 59 26.853

JAMES CITY COUNTY

**PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA**

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

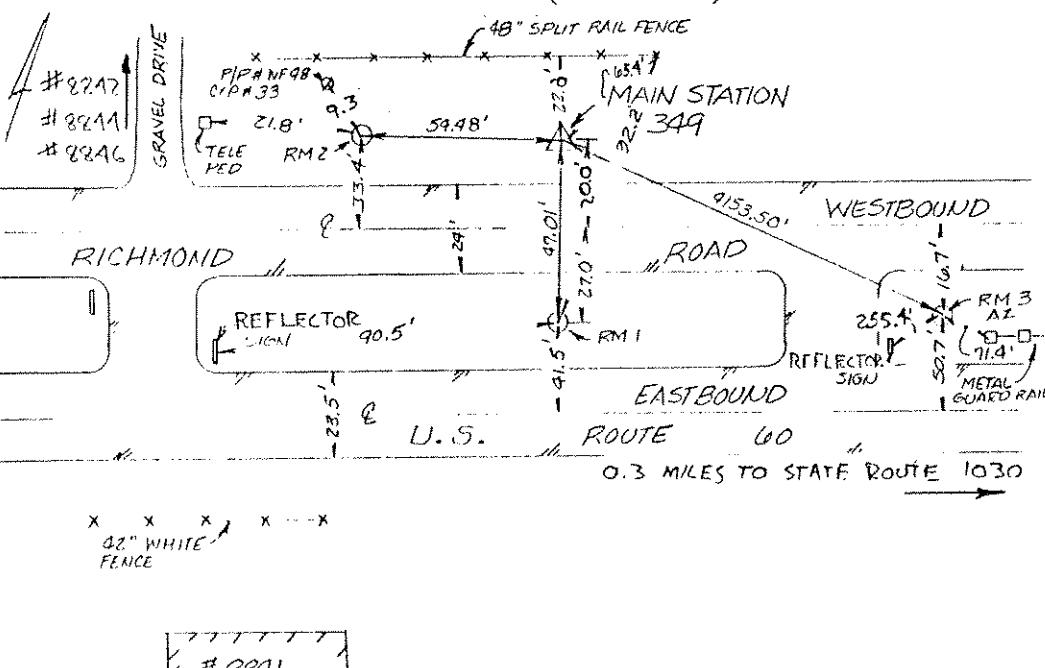
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
349	Meters	3647468.310	1120114.796
	U.S. Survey Ft.	11966735.614	3674909.961
	Int'l Ft.	11966759.548	3674917.311

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
349 RM3 AZ.	Meters	3648730.940	1120022.639
	U.S. Survey Ft.	11970878.091	3674607.609
	Int'l Ft.	11970902.033	3674614.959

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	S02°47'12"W	47.01
RM2	N72°13'32"W	54.48
RM3 AZ.	S85°49'32"E	4153.50

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 98.45

**FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE**

Elevation of Azimuth Mark in Feet = 87.73

COUNTY / CITY

DISTRICT

JAMES CITY COUNTY

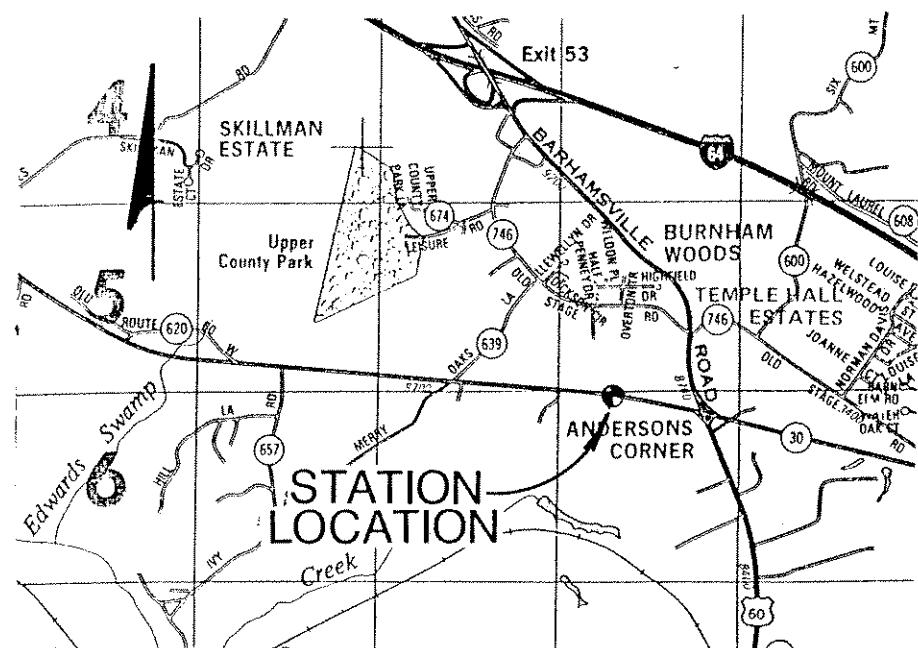
STONEHOUSE

STATION NUMBER

FIELD BOOKS

349

LOCATION MAP (Scale: 1"=2000")



STATION DESCRIPTION

STATION NO. 349:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 349." The disk is located approximately 0.4 mile west of State Route 1030, 20.0' north of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 22.8' south of a 48" split rail fence, and 65.4' southwest of the east end of the 48" split rail fence.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 349 – REFERENCE MARK NO. 1." The disk is located in the median, 27.0' south of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 41.5' north of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 90.5' northeast of a reflector sign.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 349 – REFERENCE MARK NO. 2." The disk is located 33.4' north of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 9.3' southeast of utility pole #WF48 (Chesapeake & Potomac Telephone Company #33), and 21.8' east of a telephone pedestal.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 349 – REFERENCE MARK NO. 3 AZ." The disk is located in the median 16.7' south of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 50.7' north of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 255.4' northeast of a reflector sign, and 71.4' northwest of the end of a metal guard rail.

STATION NAME: 349

Latitude (dms) 37 24 14.28904

Longitude (dms) 76 50 03.26435

State Plane Zone (4502) Virginia South

Scale 0.999945603

Convergence (dms) 1 00 39.567

JAMES CITY COUNTY

**PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA**

VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1986)

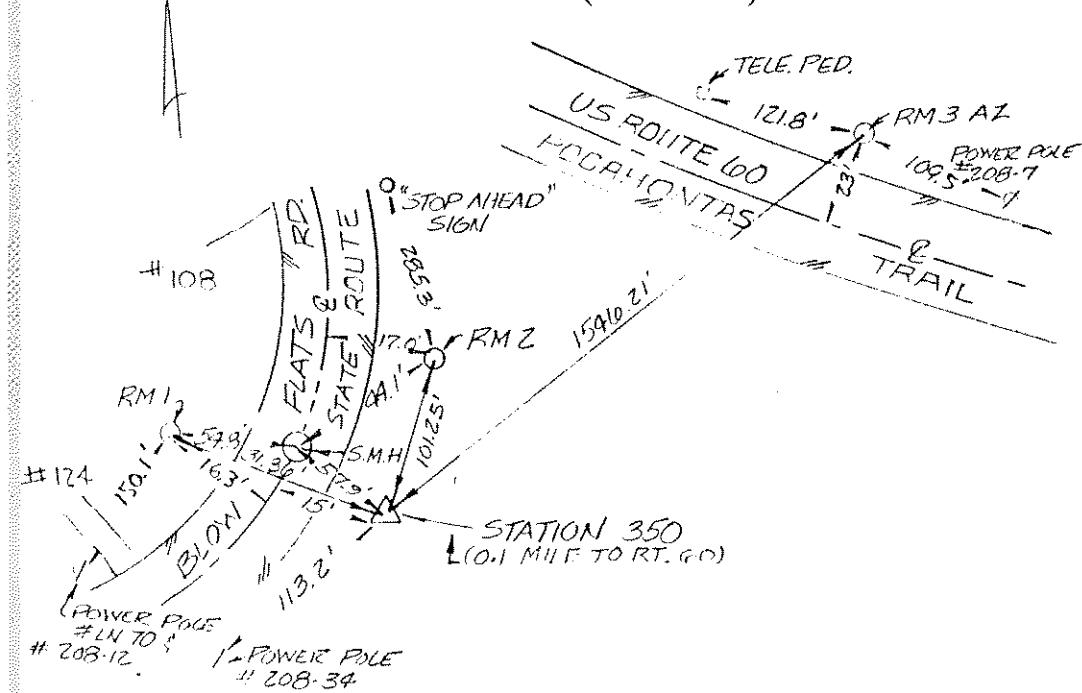
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
350	Meters	3668252.826	1098499.951
	U.S. Survey Ft.	12034926.148	3603995.257
	Int'l Ft.	12034950.218	3604002.465

STA. AZIMUTH MARK	UNITS	EASTING (X)	NORTHING (Y)
	Meters	3668647.785	1098757.084
350 RM3 AZ.	U.S. Survey Ft.	12036221.942	3604838.867
	Int'l Ft.	12036246.015	3604846.077

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE (FEET)
RM1	N74°45'02"W	31.36
RM2	N00°06'45"E	101.25
RM3 AZ.	N56°56'04"E	1546.21

LOCATION SKETCH (Not to Scale)



VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 59.90

**FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE**

Elevation of Azimuth Mark in Feet = 52.31

COUNTY / CITY

DISTRICT

JAMES CITY COUNTY

ROBERTS

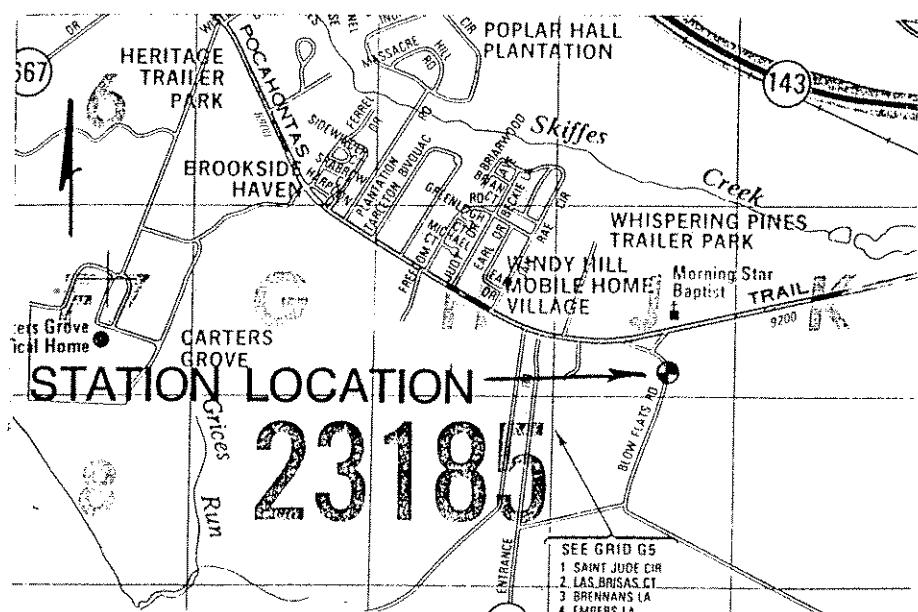
STATION NUMBER

350

FIELD BOOKS

P.S. 363, P. 1-2

LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

STATION NO. 350:

A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 350." The disk is located on the east side of Blow Flats Road, approximately 0.1 mile south of U.S. Route 60 (Pocahontas Trail), 15' east of the center line of the pavement of Blow Flats Road, 113.2' northeast of utility pole #208-34, and 57.9' southeast of the center of a sanitary manhole in Blow Flats Road.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 350 – REFERENCE MARK NO. 1." The disk is located on the west side of Blow Flats Road, 16.3' west of the center line of the pavement of Blow Flats Road, 150.1' northeast of power pole #LN70/208-12, and 54.8' west of the center of a sanitary manhole in Blow Flats Road.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 350 – REFERENCE MARK NO. 2." The disk is located on the east side of Blow Flats Road, 17' east of the center line of the pavement of Blow Flats Road, 44.1' northeast of the center of a sanitary manhole in Blow Flats Road, and 285.3' south of a "Stop Ahead" sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 350 – REFERENCE MARK NO. 3 AZ." The disk is located 23' northeast of the center line of the pavement of U.S. Route 60 (Pocahontas Trail), 121.8' southeast of a telephone pedestal, and 109.5' northwest of utility pole #208-7.

STATION NAME:	350
Latitude (dms)	37 12 20.53187
Longitude (dms)	76 36 15.93127
State Plane Zone (4502)	Virginia South
Scale	0.999949368
Convergence (dms)	1 09 01.696